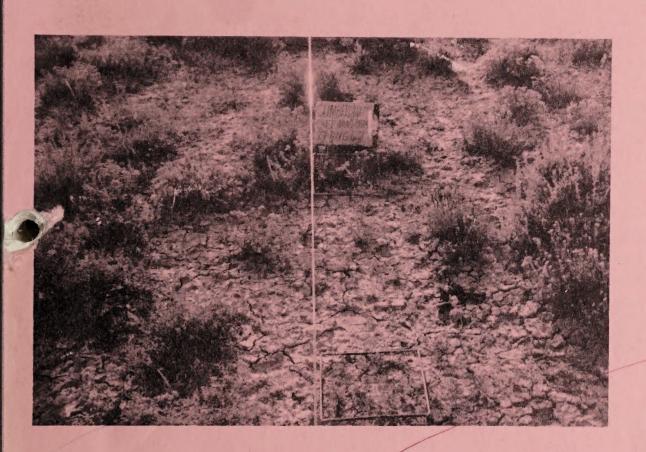


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University of Wyoming

Cooperative Research Report
to the Bureau of Land Management





ANNUAL PROGRESS REPORT 1967

ARID LAND ECOLOGY RESEARCH

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ARID LAND ECOLOGY RESEARCH1/ 1967 ANNUAL PROGRESS REPORT

by

H. G. Fisser and G. L. Noller2/

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Section I - 5 pages Soil moisture and temperature studies - Smilo, Granite Mountain and Cumberland Exclosures

Section II - 6 pages Precipitation pattern study

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Frontspiece

The photographs of the Cumberland #1 Exclosure depict changes which usually occur following sagebrush control. The exclosure is located some 25 miles south of Kemmerer, Wyoming in an alkaline bottomland. The most abundant shrubs in the area were greasewood, spiny horsebrush, gardner saltbush, and small amounts of big sagebrush. Following shrub control by application of 2-4,D in 1963, forage production of the nonsprayed sites has remained higher than on the sprayed sites due, primarily, to the loss of gardner saltbush under the shrub control treatment. Native perennial grasses have been becoming increasingly more abundant and productive in the sprayed areas so that production is nearly the same as on the nonsprayed sites. The upper picture portrays the result of shrub control--a tremendous increase in grass cover and production. The lower picture shows the character of the native shrub type. Shrub control of this vegetation type may not necessarily mean an increase in forage production because of the productive potential of palatable native shrubs. In areas of extensive shrub stands an operator may find it advisable, however, to control shrubs in order to increase grass production and provide a more varied diet for grazing animals.

 $[\]frac{1}{P}$ ublished with approval of the Director, Wyoming Agricultural Experiment Station, as Scientific Report No. 132.

^{2/}Associate Professor of Range Management and Graduate Research Assistant, Range Management Section, University of Wyoming, Laramie, respectively.



SECTIONI

SOIL MOISTURE AND TEMPERATURE STUDIES 1967

Introduction

Studies to evaluate soil moisture and temperature characteristics as influenced by sagebrush control and livestock grazing were initiated in 1963. Soil moisture was determined by use of a neutron scattering meter. Permanent metal access tubes, 2" in diameter, were set into the ground to a depth of 5'. The neutron probe measures the amount of water in the soil through an area of about 4' in diameter. Soil temperatures were measured with thermister probes placed at 8, 15, and 22" below the surface. Lead cables from the buried sensitive elements were connected to a meter for an instantaneous reading of temperature. Surface temperatures were read with a portable probe. At the Smilo and Granite Mountain Exclosures two access tubes were located in each of the following treatments at each study site: Inside Sagebrush Sprayed, Inside Sagebrush Non-sprayed, Outside Sagebrush Sprayed and Outside Sagebrush Non-sprayed. At the Cumberland #1 and Cumberland #4 Exclosures three access tubes were placed in each of the two treatments inside the exclosures: Sagebrush Sprayed and Sagebrush Non-sprayed.

1967 Results

Soil moisture, temperature and precipitation data were recorded on nine dates at the Granite Mountain and Smilo Exclosures during 1967. These soil moisture and precipitation data are presented in Tables 1 and 2. At the Cumberland #1 and Cumberland #3 Exclosures soil moisture measurements were obtained on eight dates during the year. These data are presented in Tables 3 and 4. Soil temperature data for 1966 and 1967 are presented in Table 5.

Soil moisture values reflect the abundant rainfall during spring and early summer of 1967 in that the average annual mean moisture levels were considerably greater than during previous years. The moisture levels during the latter summer and fall periods were low; apparently a combined result of limited precipitation during August and September and increased capability for moisture utilization following the very favorable growth conditions which existed during spring and early summer.

The low soil temperatures during May, June and July of 1967 reflect the influence of high soil moisture content during that period. At the 15" and 22" depths, temperatures remained low during the latter part of the year although air temperatures were high and precipitation minimal. With increasing depth, soil temperature variation is less subject to short term weather changes. To attain the greatest temperatures at the 15" and 22" depths weather conditions must be warm and dry during the entire growing season. A short period of extremely warm and dry weather during mid-summer will not cause a rapid temperature increase of soils below 21" to 15".

Table 1. Granite Mountain Exclosure. Precipitation (in inches) and soil moisture readings (inches of moisture per 12" of soil) as affected by sagebrush control and grazing1967 (each figure is an average of readings in two access tubes).

Outside										
Spray	Mar. 23	Apr. 29	May 12	June 9	June 21	July 17	Aug. 9	Sept. 1	Oct. 14	Mean
6"	3.35	3.08	3.36	2.90	2.50	2.25	1.90	1.69	1.99	2.56
12"	2.81	3.09	3.28	3.04	2.68	2.51	2.17	2.05	1.99	2.62
18"	2.48	2.81	2.93	3.16	3.00	2.91	2.41	2.17	2.13	2.67
24"	2.02	2.29	2.25	2.80	2.72	2.68	2.33	2.15	2.04	2.36
36"	1.85	2.39	2.32	2.44	2.44	2.50	2.47	2.43	2.35	2.35
4811	1.92	1.86	1.75	1.79	1.85	1.81	1.85	1.84	1.77	1.83
60"	1.77	1.85	1.83	1.85	1.87	1.85	1.87	1.87	1.88	1.85
Mean	2.31	2.48	2.53	2.57	2.44	2.36	2.14	2.03	2.02	2.32
Outside										
Non-spray										
6"	3.74	3.00	3.46	3.06	2.81	2.36	1.99	1.77	1.99	2.69
12 ^{tt}	2.37	2.84	3.04	2.89	2.76	2.50	2.14	1.98	1.97	2.50
18"	2.38	2.80	2.87	3.16	3.07	2.90	2.54	2.37	2.36	2.72
24"	2.35	2.59	2.54	2.95	2.86	2.79	2.50	2.37	2.36	2.59
36"	2.03	2.09	2.01	2.11	2.13	2.12	2.05	2.03	2.03	2.07
48"	1.85	1.92	1.88	1.86	1.88	1.85	1.88	1.82	1.81	1.86
60 ''	1.34	1.63	1.53	1.58	1.64	1.60	1.59	1.56	1.52	1.55
Mean	2.29	2.41	2.48	2.52	2.45	2.30	2.10	1.99	2.01	2.28
Inside										
Spray										
6"	3.07	3.18	3.53	3.02	2.71	2.36	2.11	1.87	2.08	2.66
12"	2.61	2.95	3.32	3.04	2.78	2.54	2.08	1.97	2.05	2.59
18"	2.36	2.61	3.31	3.12	3.08	2.96	2.40	2.17	2.17	2.69
24"	2.20	2.35	2.69	2.83	2.89	2.86	2.51	2.25	2.23	2.53
36"	2.08	2.02	2.00	2.30	2.36	2.41	2.30	2.19	2.11	2.20
48"		2.07	2.07	2.06	2.18	2.22	2.18	2.14	2.12	2.13
60"		1.95	1.85	1.95	1.88	1.94	1.91	1.85	1.87	1.90
Mean	2.46	2.45	2.68	2.62	2.55	2.47	2.21	2.06	2,09	2.40
Inside										
Non-spray										
6"	3.10	2.68	3.15	2.57	2.34	1.98	1.59	1.55	1.81	2.31
12"	2.77	2.72	2.80	2.67	2.32	2.11	1.70	1.59	1.66	2.26
18"	2.49	2.72	2.81	2.75	2.60	2.49	1.80	1.66	1.61	2.33
24"	1.90	2.42	2.55	2.66	2.58	2.53	1.82	1.66	1.63	2.19
36"	1.46	1.62	1.58	2.07	2.13	2.11	1.86	1.65	1.60	1.79
48"	1.60	1.66	1.65	1.66	1.70	1.86	1.85	1.73	1.74	1.72
60"	1.48	1.46	1.40	1.35	1.39	1.38	1.40	1.52	1.54	1.44
Mean	2.11	2.18	2.28	2.25	2.15	2.07	1.72	1.62	1.66	2.00
PPT	. 95	. 31	.73	2.06	.89	3.57	。64	。09	1.46	
						de la companya de la				

^{*}Precipitation from December 18, 1966.

Table 2. Smilo Exclosure. Precipitation (in inches) and soil moisture readings (inches of moisture per 12" of soil) as affected by sagebrush control and grazing - 1967 (each figure is an average of readings in two access tubes).

Outside		26 24	т	T 0.3	7 1 26		0	0 - 1:	36
Spray 6"	Mar. 24	May 14	June 8	June 21	July 16	Aug. 8	Sept. 1	Oct. 14	Mean
12"	3.16	3.95	2.92	3.17	2.57	2.50	2.22	2.55	2.88
18"	1.95	2.31	2.19	2.21	2.10	2.10	2.04	2.11	2.13
	1.82	1.78	1.84	1.81	1.85	1.85	1.84	1.86	1.83
24"	1.94	1.82	1.89	1.89	1.86	1.92	1.87	1.86	1.88
36"	2.17	2.15	2.08	2.16	2.11	2.10	2.07	2.02	2.11
48"	1.64	1.69	1.64	1.66	1.64	1.67	1.62	1.62	1.65
60"	1.14	1.16	1.19	1.16	1.16	1.18	1.14	1.24	1.17
Mean	1.97	2.12	1.96	2.01	1.90	1.90	1.83	1.89	1.95
Outside									
Non-spray									
6"	2.53	3.41	2.27	2.69	2.02	1.77	1.63	1.93	2.28
12"	1.73	2.89	2.38	2.32	1.99	1.84	1.79	1.78	2.09
18"	1.45	2.01	1.85	1.81	1.67	1.55	1.47	1.48	1.66
24"	1.38	1.43	1.48	1.46	1.42	1.37	1.37	1.38	1.41
36"	1.35	1.39	1.37	1.37	1.36	1.38	1.35	1.36	1.37
48"	1.71	1.68	1.75	1.74	1.74	1.75	1.67	1.74	1.72
60"	1.79	1.75	1.82	1.77	1.77	1.80	1.74	1.77	1.78
Mean	1.71	2.08	1.84	1.88	1.71	1.64	1.57	1.63	1.76
Inside									
Spray									
6"	2.94	3.92	2.74	3.31	2.28	2.18	1.93	2.31	2.70
12"	1.94	2.67	2.35	2.42	2.02	1.97	1.91	1.89	2.15
18"	1.59	1.73	1.76	1.81	1.67	1.65	1.59	1.63	1.68
24"	1.52	1.52	1.56	1.58	1.54	1.58	1.58	1.60	1.56
36"	2.02	1.90	2.00	1.94	1.89	1.98	1.89	1.82	1.93
48"	2.74	2.69	2.73	2.74	2.72	2.75	2.58	2.64	2.70
60"	2.56	2.50	2.60	2.59	2.60	2.62	2.57	2.59	2.58
Mean	2.19	2.48	2.25	2.34	2.10	2.10	2.01	2.07	2.19
Inside									
Non-spray									
6"	3.29	3.73	2.69	3.12	2.30	2.04	1.86	2.26	2.66
12"	2.04	3.00	2.44	2.41	2.04	1.86	1.79	1.84	2.18
18''	1.73	2.39	2.12	2.06	1.96	1.81	1.70	1.73	1.94
24"	1.83	1.99	2.02	2.04	2.00	1.93	1.90	1.89	1.95
36"	1.86	1.84	1.87	1.88	1.88	1.85	1.87	1.88	1.87
48"	1.63	1.60	1.62	1.62	1.61	1.64	1.62	1.62	1.62
60"	1.37	1.37	1.38	1.36	1.37	1.37	1.36	1.37	1.37
Mean	1.96	2.27	2.02	2.07	1.88	1.79	1.73	1.80	1.94
PPT	1.24	3.29	. 98	1.96	1.54	。50	.13	1.83	-

^{*}Precipitation from December 18, 1966.

Table 3. Cumberland #1 Exclosure. Precipitation (in inches) and soil moisture readings (inches of moisture per 12" of soil) as affected by sagebrush control-1967 (each figure is an average of readings in three access tubes).

Inside								
Spray	Apr. 20	June 9	June 22	July 17	Aug. 9	Sept. 1	Oct. 14	Mean
6"	3.25	2.97	3.46	1.70	1.49	1.42	2.25	2.36
12"	2.89	2.73	3.09	1.73	1.59	1.55	1.55	2.16
18"	1.89	2.05	2.23	1.81	1.64	1.59	1.59	1.83
24"	1.64	1.71	1.71	1.74	1.70	1.70	1.64	1.69
36"	1.82	1.88	1.89	1.87	1.86	1.88	1.83	1.86
48"	2.03	2.09	2.03	2.14	2.07	2.10	2.11	2.08
60"	2.08	2.10	2.13	2.12	2.12	2.08	2.04	2.10
Mean	2.23	2.22	2.36	1.87	1.78	1.76	1.86	2.01
PPT	2.45*	2.36	1.94	0.98	0.11	0.16	1.62	
Inside								
Non-spray								
6"	3.44	2.70	3.20	1.78	1.54	1.49	1.75	2.27
12"	3.31	2.66	2.86	1.74	1.60	1.56	1.55	2.18
18"	3.07	2.82	2.75	1.90	1.86	1.80	1.75	2.28
24"	2.30	2.31	2.31	2.15	1.86	1.85	1.77	2.08
36"	1.89	1.86	1.89	1.93	1.90	1.89	1.89	1.86
48"	2.14	2.05	2.08	2.09	2.10	2.06	2.11	2.09
60"	2.08	2.13	2.13	2.15	2.09	2.08	2.07	2.10
Mean	2.61	2.36	2.46	1.96	1.85	1.82	1.84	2.12
PPT	2.45*	2.36	1.94	0.98	0.11	0.16	1.62	

^{*}Precipitation from December 19, 1966.

Table 4. Cumberland #3 Exclosure. Precipitation (in inches) and soil moisture readins (inches of moisture per 12" of soil) as affected by sagebrush control-1967 (each figure is an average of readings in three access tubes).

Inside								
Spray	Apr. 20	June 9	June 22	July 17	Aug. 9	Sept. 1	Oct. 14	Mean
6"	4.06	2.73	3.47	1.98	1.78	1.65	2.05	2.53
12"	3.68	3.03	3.31	2.17	1.94	1.83	1.84	2.54
18"	3.70	3.39	3.41	2.47	2.08	1.97	1.97	2.71
24"	3.73	3.38	3.31	2.49	2.11	1.99	1.96	2.71
36"	2.83	3.05	3.02	2.53	2.17	2.06	2.08	2.53
48"	2.49	2.55	2.59	2.40	2.22	2.10	2.10	2.35
60"	2.16	2.29	2.33	2.30	2.24	2.15	2.15	2.23
Mean	3.24	2.92	3.06	2.34	2.08	1.97	2.02	2.52
PPT	2.83*	2.76	1.91	0.76	0.12	0.20	1.43	
Inside								
Non-spray								
6"	3.89	2.60	3.39	1.81	1.62	1.46	1.82	2.37
12"	3.80	2.81	3.15	1.99	1.79	1.69	1.76	2.43
18"	3.83	3.21	3.20	2.25	1.96	1.83	1.84	2.59
24"	3.66	3.22	3.09	2.23	1.86	1.81	1.76	2.52
36"	2.18	2.70	2.64	2.06	1.82	1.68	1.69	2.11
48"	1.90	2.10	2.12	2.00	1.83	1.80	1.81	1.94
60"	1.76	1.79	1.84	1.78	1.70	1.65	1.69	1.74
Mean	3.00	2.63	2.78	2.02	1.80	1.70	1.77	2.24
PPT	2.83*	2.76	1.91	0.76	0.12	0.20	1.43	
	2,00	2.,0	2002			0 2 2 0	2013	

^{*}Precipitation from December 19, 1966.

Table 5. Soil temperature readings in degrees centigrade from the Granite Mountain and Smilo Exclosures - 1966 and 1967

		Gran	nite Mou	ıntain E	Exclosure			
		Spra	ayed			Non-	sprayed	
Date	1"	8''	15"	22"	1"	8"	15"	22"
3-12-66	0.0	-2.0	-3.0	-3.5	-1.0	-4.0	-4.0	-3.0
4-16-66	11.6	6.7	3.9	2.8	10.0	7.8	5.6	4.1
6-10-66	18.5	19.8	14.0	10.1	21.0	14.3	11.1	10.1
6-29-66	24.5	27.6	15.7	13.5	25.0	21.9	17.1	-
8- 1-66	23.8	20.1	20.0	18.4	24.6	20.8	21.2	
8-14-66	27.0	20.2	16.7	16.4	28.1	20.8	17.7	17.5
8-31-66	16.0	17.2	17.0	16.0	15.4	18.0	18.0	17.0
9-11-66	21.0	16.0	15.8	15.2	20.0	16.5	16.8	16.8
10-20-66	-1.0	2.2	4.0	6.0	0.5	2.2	0.3	8.0
11-17-66	3.2	1.2	2.0	3.8	3.4	1.0	2.6	2.2
12-17-66	J. Z	-2.8	-1.8	-0.9	J • ¬	-3.3	-2.3	-1.1
12-17-00		-2.0	1.0	0.7		2.2	2.5	7.07
3-23-67	0.0	-1.0	-1.0	-1.0	-0.1	-0.6	-0.0	-0.2
4-29-67	3.0	5.1	4.0	3.5	3.2	5.5	5.0	4.0
5-12-67	8.0	6.0	4.8	5.0	10.0	6.0	5.0	5.4
6- 9-67	10.2	11.0	11.0	10.0	11.0	11.1	11.4	10.8
6-21-67	20.0	14.0	12.2	12.0	20.2	15.0	13.5	12.8
7-17-67	16.5	17.0	16.0	14.8	17.0	18.4	18.0	16.0
8- 9-67	14.2	17.6	17.2	16.8	15.2	18.2	18.8	18.0
9- 1-67	24.9	19.9	17.1	16.8	22.0	20.0	17.8	17.3
10-14-67	5.1	7.9	10.3	10.5	5.2	8.1	9.8	10.1
			Smile	Exclos	sure			
3-12-66	0.5	1.5	2.0	2.0	0.0	2.3	2.8	3.0
4-17-66	4.0	8.2	9.1		3.8	8.2	9.0	9.4
6-10-66	21.4	17.8	16.9	16.2	20.9	18.1	17.0	16.2
7- 1-66	21.8	22.0			20.9	23.0		
8-15-66	26.4	23.2	22.4	22.8	27.6	23.0	26.4	22.2
8-30-66	31.8	22.2	20.4	21.2	31.0	22.8	23.5	21.4
9- 8-66	30.1	21.2	20.2	21.0	29.8	22.4	26.2	21.0
10-21-66		8.2	8.5	10.8		8.4	Quant Collect, Column Collects	14.6
11-19-66	0.2	4.0	4.2	6.2	0.2	4.0	4.0	6.0
12-18-66	-5.1	-0.4	-0.8	1.6	-4.2	-0.8	0.1	
3-23-67	7.8	3.0	4.0	4.9	7.0	/1 2	5.0	1, 2
5-13-67	5.0	9.0		9.0			8.8	
6- 8-67	24.2	15.8	14.8	14.5	24.9	17.2	16.8	
6-20-67	17.0	15.2	15.2	16.0	17.2	17.2	17.2	15.8
7-16-67	19.8	20.8	20.2	20.2	20.4	22.8	22.8	16.6 21.0
8- 8-67	27.2	19.0	20.2	21.0	33.0	21.0	21.6	
9- 1-67	13.1			20.5	13.2	20.3		21.0 20.5
10-14-67	7.8	11.2		13.1	5.6	10.6	12.2	13.5
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SECTION II

PRECIPITATION PATTERN STUDY, 1967

Introduction

During 1960 over 70 gauges were installed at 6 to 12 mile intervals throughout the Big Horn and Wind River Basins. Since that time approximately 20 gauges in the Big Horn Basin have been discontinued and some 60 gauges have been installed at various exclosures and study sites throughout western Wyoming. These gauges are simple cans, 12" in height and approximately 2.75" in diameter. This diameter allows reading of precipitation my merely pouring the water into a 100 ml cylinder, and converting ml readings to inches of rainfall. One hundred ml is equal to 1" of precipitation. The gauges are read on the same four dates each year - April 15, July 1, September 1 and October 15. Personnel of the Worland, Lander, Rawlins, Casper and Rock Springs Districts of the Bureau of Land Management cooperate with the University in reading the instruments. Some of the gauges are read by personnel of the Soil Conservation Service and the Wyoming Game and Fish Commission.

The weather bureau and the U. S. Geological Survey precipitation data are used to provide additional information from independent locations. This cooperative effort provides an effective network for future evaluation of precipitation patterns. A map of precipitation gauge locations was presented in the 1963 report.

1967 Results

Precipitation data for 1966 from the University gauges are presented in Table 1; those from the U. S. weather bureau stations are presented in Table 2. The rain gauges located for general pattern studies of precipitation within the Big Horn Basin were discontinued after the July 1, 1965, reading. The others located in the Wind River Basin are to be continued in conjunction with studies being conducted by the Bureau of Land Management and U. S. Geological Survey in that area.

Only moderate amounts of precipitation occurred during the winter period from October 15, 1966 through April 15, 1967. Precipitation during the spring period from April 15, 1967 through June 30, 1967 was much greater than normal. As much as 10.47" occurred during the 2½ month period. Most areas received from 5" to 8" of precipitation. Lowest values were recorded in the Red Desert area of Southwestern Wyoming.

Growing conditions were very favorable especially in the Big Horn Basin and Wind River Basin areas. Many annuals which had never before been observed were seen at the various exclosures. The abundance of the usual annual weeds as well as the species not before observed is not to be confused with a decrease in condition, although the previous year 1966, was extremely dry and certainly resulted in decreased vigor of native perennial plants. Under conditions of very favorable moisture and temperature characteristics annual plants can be expected to be abundant. This situation is not a perennial type of condition and we would seldom

find more than one or two years of extremely vigorous growth of annuals. The generally rigid and arid climatic conditions of western Wyoming by their very character limit the annuals, most of which are winter annuals and require a long and early growing season to be able to compete effectively with perennial plants for moisture and nutrients.

Summer readings from July 1 through August 30, 1967 were relatively low with most gauges recording less than 1" of precipitation. These values were higher than those recorded during the previous summer. During the fall period from September 1 through October 15 precipitation by and large was above normal with more than 2" of rainfall recorded at many of the locations. Several of the storms which went through the area during that period resulted in very intensive precipitation and subsequent soil erosion.

In conjunction with the grazing systems study in the area west of Baggs 17 new rain gauges were established during 1967. These data will be reported in this and subsequent reports.

Precipitation data for 1967 from University of Wyoming gauges for the periods - October 15- April 15 (winter), April 15-July 1 (spring), July 1-September 1 (summer) and September 1-October 15 (fall). Table 1.

No	7 28	8	20 7	38	10		93	,75 1	56								74	,23 6	20	22	32	78 8	79	22	73	97	61	36	16	94	57	36	12	98	50	10
1967 Te	Oral A	7. 7.	14,02 11,	8,38 8	。42 11		.73 13	8,75 8,	13.31 9.	1							0.72 8	10.82 9.	8 79 0		0 00	5	3.85 11	.52 8	0.09 7	.77 10	9.39 10	1.53 9	.74 7	9.15 7	0.34 8	.03 8	7 44.	1.22 8	.73 11	67 6
- C	ral	1.40	1 00	.5	.82	∞	9	9 .	7	St	1.75	St	9.	st	st	1.	.5	6.	C) -	0	1.24	.3	3	33	0.	.2	0.	10	0	.3	.2	0.	4.	3	7
Samuel	nnc	2,000	1 4	∞	9 °	S. R	0	0 °	1.80		Est.		Est.			1		. 64	L	. 29	1_	2	9	9	∞	φ.	3	.3	1	.62	∞	2	2	5	0	5
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ide	Est.	0	10	7 .	st	∞	.5	7.06	0							9.	3.60	רכ		7 .	5.19	0.	.2	.1	6.	0.	.2	6.	1.	00	.4	0.	4.	0.	7
4	=		5,00	∞				1.48	3, 75									2.67	1,51	1.37	1.12	. 87	2.43	1.40	1.80	.91	1.82	1.85	1.39	1.78	1.36	2.10	1.12	1.78	3.46	78
Rain Gailge Name	il dauge	Big Flat Exc. Halogeton Pastures	Horse Creek	Horse Haven Exc.	Kane Deer Exc.	Kane Seed Exc.	Sheep Springs	Shell Study Area	Little Robber #5		Oppenheimer Exc. #1(RG #5)	Oppenheimer-C(RG #6)	. #1(RG	Poison Butte Exc. #2(RG #2)	(RG #3)	Powder Rim-C Exc. #1(RG #7)	Red Wash #1	Red Wash #3	Alkali Flats	Ant Plot Exc. Lander	Ranch	Boysen Resevoir Exc.	Bridger Creek	Canyon Creek	Carter Divide Exc.		Butte #1	Dishpan Butte #2 Exc.	Dry Creek	Cartr	Fraser Seed Plot	Fuller Seed Plot	Gibbs Butte	Granite Mtn.	Hall Creek Div. Exc.	Hondon Creek
County		Big Horn				*			Carbon										Fremont																	
Rain Gauge Number	100	123	12	113	21	116	23	112	27	127	128	129	2	2	126	3	26	25	52	2	89	10	85	64	59	& &	09						94			

County Rain Gan Johnson Little Logan Logan Lower (Mack Ramadden Mackeram Muskramen Mus	Rain Gauge Name Johnson Little Popo Agie Logan #1 Exc. Logan #2 Exc. Lower Govt. Draw #2 Mack Ranch Madden McGraw Flat Exc. Muskrat Muskrat Pan American Poison Creek Poison Draw Sweetwater	Winter 1.45 1.81	pr	Summer	2	40	
John Litt Loga Loga Loga Lowe Mack Mack Musk Musk	Popo Agie #1 Exc. #2 Exc. Govt. Draw anch Flat Exc. It #5 Exc.	1,45 1,81 1,64			1	200	er
Litt Loga Lowe Mack Mado McGr Musk Musk	#1 Exc. #2 Exc. Govt. Draw lanch Flat Exc. It from #5 Exc. It Creek Draw Draw Atter	1.81	33	6.	0	11,77	7,79
Loga Lowe Nack Madc McGr Musk Musk Pan	#1 Exc. #2 Exc. Govt. Draw lanch Telat Exc. It It #5 Exc. It #5 Exc. It #5 Exc.	1,64	0	9	0,2	2.0	10
Loga Lowe Mack Mado McGr Musk Musk	#2 Exc. Govt. Draw lanch Flat Exc. It It #5 Exc. Icreek Creek Draw Thay		10	9	0.	10	20
Lower Mack Mado McGr Musk Musk Pan	Govt. Draw lanch Flat Exc. It It #5 Exc. Creek Creek Draw Ater	1,37	10	5	0,2	70	20
Mack Mado McGr Musk Musk Pan	k Ranch den traw Flat Exc. krat krat krat #5 Exc. Son Creek son Draw etwater	2,25	3	3	1 .	3.6	.5
Mado McGr Musk Musk Pan	den krat krat #5 Exc. American son Creek son Draw	1,33	10	10	10	0.0	7.7
McGr Mush Mush Pan	krat krat krat #5 Exc. American son Creek son Draw	2,39	40	1	0	4.5	∞
Mush Mush Pan	krat krat #5 Exc. American son Creek son Draw	2.06	7.17		0 °	70	40
Musk Pan	krat #5 Exc. American son Creek son Draw	1.08	-	.2	-	8,4	00
Pan	Son Creek son Draw etwater	1,73	7 .	H	-	7.	1
	son Creek son Draw	2.75	10	2	.2	6	3
FO18	son Draw	1,15	-	.2	-	9.7	4
Pois	etwater	1,33		0	5	0	5
Swee		2.26		.33	1.48		6.32
Nppe	Upper Govt. Draw #1	1.86	6.75	9	∞	11,15	.2
	, di	7 5 5	~	-	C		
Shiride	big bellu bac.	DSC.	. 40	1.12	1.30	1	
Coci	cochran Exc.	2.13	0	-	J.	17.10	10.56
Kirl	Kirby Creek Exc.	2.51	-	0	4.	2.9	.3
Lowe		Est.	1.	∞	6		
l'n'I			\vdash	.7	.2		14.46
Sand	Sand Gulch Exc.	1.95	0.	5	.5	11.06	.2
		7					
Lincoln Cumb		6.207	4.20	.42	1.46	7	8.46
Cum	Cumberland #3	4.37	.27		4.	.5	4.
E1k	Elk Mtn. Pit	3.90°	.30	1	1.	0.0	4.
Natrona	Δrminto Ryo	2 53	-	<	4	11 05	11 05
	Rolton Crook Hyo	. [1.00	o H) -
Laou	五 五 五 五	1 L	2	1 6	0 ~		
1 44	TIII TAC.	ר ה ה			t ·		,
43	EN EXC.	5.00	1.	t ~	0 0	11.80	11.80
Meri	Merino Exc.	EST.	7.	7 1	χ •		
Mud	Mud Springs	Est.	7 .	°,	7.		
0w1	Owl Draw	2.08	9.	5	3	9.62	9.62
Pois	Poison Spider Exc.	Est.	1.	0.	.5		
Stir	-4	3.22			10	11.62	11.62
Park Buff	Buffalo Basin Exc.	2,15	8.31	1.28	1.24	12.98	12,98
Orton Total	× 100 × 100	2 23	C	0			(
		7.70	7.04	.00	7.7	00	00.7

		*																	

Rain								-	MOM
Gauge							9	Term	of o
Number	County	Rain Gauge Name	Winter	pr	Summer	Fa11	त्त	Average	Years
18			1,93	3.58	Ĭ	70	7.40	3,34	9
102		Chandler Simpson Well	1.68			0			
103		Daley Hay Corral	1.61	9 °	5	0.5	63	03	Н
2		Farson	2.07	63	9	3	9 °	10	9
95		Farson Guzzler #1	2.47	∞	9	20	.2	10	m
96		Farson Guzzler #2	3.05	10	9	6	40	∞	3
97		Farson Guzzler #3	1.90	40	5	1	6,53	6.95	3
86		Farson Guzzler #4	2,36	5	9	3	9	90	3
66		Farson Guzzler #5	62	0.05	9	20	.5	∞	3
122		Firehole Guzzler #10	Est。	9 °	4	5			
104		J.O. Headquarters	2.13	3.12	.71	1.56	7.50	6.42	2
105		y Corral	2,15	.5	3	∞	∞	. 2	2
131		Rim D Exc.				L			
132		Rim D-C(RG				st			
133		Rim			Est.	.2			
134		Rim D-B(RG #11)				st			
135		Rim B-State			Est.	-			
136		Powder Rim B Exc. #1(RG #13)			S	4.			
137		Rim B Exc.				st			
138		Powder Rim A-B(RG #15)			st	. 2			
139		Powder Rim A Exc. #1(RG #16)			Est.	4.			
140		Powder Rim A(RG #17)	10	-		st			
118		Power Line Guzzler #6	Est. 10	.3	.3	4.			
119		Power Line Guzzler #7	٦.	.51 [±]	3	9.			
19		Radio Tower	1.84	-1	∞	1.	7.04	7.02	7
28			0		.34	.1	8.64	33	9
120		Steamboat Guzzler #8	Est, 14	0	0	7.			
121		ler	Est, to	°75 [±]	0	٦,			
101		Ten Mile Ridge	1.14	C,	2	-	6.23	5.85	2
	Uinta	Cumberland #1		5.18	3	9 °	10,92	٢	m
34		Cumberland #4	5.30		. 29	1,51		7.97	9
1	Washakie	Ant Hill Worland	1,34	9 .	3	.2	9 °	5	∞
41		Bud Kimball Exc.	2.60	.5	1	0.	.2	1.	9
7		Buffalo Creek Exc.	3.84	6.	٦٠	9 °	6.5	0	9
17			1.43	20	S L	1.96	7.94	6,13	9 (
× ×		Demer Exc.	2.05	0 -	0	ν Γ	0 0	0	χı
114		Duten Nick Flat Fast Worland Study Area	1,38	4° To	1,83	r.	ر	0	_
4		o card) *	•	0				

Rain								Long	No.
Gauge							1967	Term	of
Number C	ounty	Rain Gauge Name	Winter	Spring	Summer	Fa11	Total	Average	Years
15		15 Mile Study Pastures	1,38	3,50	1,82	2,56	9,26	6.72	7
36		Smilo Exc.	2.44	6.61	06°	1,83	11,78	8°48	7
39		2 Mile Hill Exc.	3,67	4.48	64°	1,88	10.52	10,38	7
13		West Pasture		5.98	.42	1.65	9.16	6.98	9
115		Worland Cattle Co. Exc.	Est. 18	.1019	° 90	2,29			

N.R

Not Read Includes precip. from July 1 to Oct. 15

- Est. 27 June 67
- Includes precip. from June 27 to July 1
- Includes precip. from Oct. 15 to May 24
- Includes precip. from May 24 to July 1
- Includes precip. from Oct. 15 to May 24
- Includes precip. from May 24 to July 1
- Includes precip. from May 20 to July 1
- Est. May 20, 1967

Includes precip. from May 20 to July 1 Est. May 9, 1967 Includes precip. from May 9 to July 1

1 1

Includes precip. from June 30 to July 1 June 30, 1967 Est. 1 1 1

May 12, 1967 Est.

Includes precip. from May 12 to July 1

May 17, 1967 Est. 1 1

Includes precip. from May 17 to July 1

June 27, 1967

Est. June 27, 1967 Includes precip. from June 27 to July 1

Table 2. Precipitation data from the U. S. Weather Bureau Stations for the period October 15, 1966 to October 15, 1967.

	Winter Oct. 15	Spring	Summer July 1	Fall Sont 1		Long	No.
	to	Apr. 15	to	Sept. 1	1967	Long Term	of
Station Name	Apr. 15	July 1	Sept. 1	Oct. 15	Total ²	Average ³	Years ³
Big Horn Basin	Ap1. 13	July 1	sept. 1	0000 15	IULAI	Average	Icars
Anchor Dam	4.09	11.46	2.85	1.45	19.85		
Basin	1.79	5.68	.43	1.41	9.31	6.21	59
Black Mountain	4.65	9.80	2.46	1.71	18.62	0021	3,
Cody 12 SE	1.64	10.79	1.68	1.60	15.71		
Deaver	.88	3.97	.38	.48	5.72	5.21	48
Cmblem	2.08,	4.81	.97	1.39	9.25	J + - 1	10
Grass Creek	4	7.61	1.14	1.60	7 6 43		
Graybull 1 S	1.26	2.83	1.22	1.24	6.55		
Heart Mountain	2.39	6.11	1.15	1.08	10.73		
Lovel1	1.66	4.86	1.07	.51	8.10	6.92	54
Powe11	.90	5.38	1.29		0.10	5.67	57
Rairden 2 WSW	1.69	4.24	.53	2.08	8.54	3.07	3,
Shell	3.45	6.19	.58	1.69	11.91		
Ten Sleep 4 NE	4.08	10.13	.50	3.15	17.86		
Ten Sleep 16 SSE	4.91	8.45	2.22	1.50	17.08		
Thermopolis 2	4.22	9.52	. 59	1.91	16.24	11.01	2
Thermopolis 25 WNW	2.46	9.88	1.89	1.26	15.49	11.01	_
Worland	1.80	4.85	. 40	2.87	9.92	7.76	53
Worland FAA AP	2.18	5.69	.36	2.78	11.01	7.70	33
Wind River Basin	2.10	3.03	• 50	2.70	11.01		
Boysen Dam	1.54	7.76	. 37	1.41	11.08		
Diversion Dam	2.08	9.87	1.23	1.15	14.33	9.45	46
Fort Washakie 2 S	2.84	11.31	1.18	1.38	16.71	11.90	58
Gas Hills 4 E	2.41	5.32	1.10	1.60	10.71	11.00	50
Lander WB AP	3.84	10.86	1.02	1.50	17.22	13.58	75
Lost Cabin	2.09	7.15	.72	1.27	11.23	13.50	13
Morton 1 NW	1.89	9.75	.80	1.50 ^E	13.94		
Pavillion	1.25	8.97	.51	1.22	11.95	8.67	42
Riverton	1.12	6.84	• 51	1.31	11.77	8.79	47
Sand Draw	1.94	8.64	1.49	1.38	13.45	0.77	7/
Shoshoni	.69	6.76	.45	1.12	9.02		
	.09	0.70	.45	1.12	9.02		
Southwest Wyoming	2.10	3.65	1.46	1.54	8.75		
Farson	3.07	5.08		1.40	9.65		
Kemmerer	2.55	4.36	.10 .52	1.34	8.77		
Rock Springs		4.36	.39	1.40	9.21		
Rock Springs FAA AF		4.23		1.96	7.95		
Wamsutter 1 N	1.13		.63		1.33		
Muddy Gap		5.19	.75	1.28	10 37		
Rawlins FAA AP	3.17	4.23	1.53	1.44	10.37		

¹Weather Bureau. 1966-1967. Climatological Data - Wyoming. U. S. Dept. Commerce. Vols. 75 and 76.

 $^{^{2}}$ Computed for the period October 15, 1966 to October 15, 1967

³Weather Bureau. 1966. Climatological Data - Wyoming Annual Summary. U. S. Dept. Commerce. Vol. 75, No. 13

No record
Estimated

Readers .

S E C T I O N I I I

EXCLOSURE STUDIES (PRODUCTION, COVER, AND PRECIPITATION PHASE)
1967

Vegetation production studies on exclosures and relic areas of the Big Homand Wind River Basins were initiated during the 1962 field season. Most of the exclosures were constructed in 1959 and 1960. The objectives of the program were to determine:

- 1. the relationship of annual herbage production to area cover percentage;
- 2. the relationship of annual herbage production changes to variations in time and amount of available moisture;
- 3. the relationship of plant height of major forage species to annual herbage production and to time and amount of available moisture;
- 4. the influence of several range improvement practices on herbage production, area cover, and plant height;
- 5. the relationship of percentage frequency to area cover and herbage production.

Methods and Procedures

Area cover and herbage production studies on sagebrush-grass sites were conducted on transects of 20 quadrats, 1' \times 1', spaced systematically along a randomly located 100' steel tape. On sites dominated by saltsage, data were obtained in like manner except that plot size was 1' \times 10'. The plot frame was placed at right angles to the steel tape and vegetation data were subdivided into ten subplots.

Area cover of herbaceous and low growing semi-woody species was estimated within each square foot plot. Shrub crown cover, including that of prickly-pear cactus and phlox, was estimated within the square foot plots, but these data were not combined when comparing area cover to forage production.

Forage production was determined by clipping herbaceous species at ground or crown level. Exclosures were clipped on or near the same date as the previous years. Clippings were oven-dried at 70°C for 24 hours prior to weighing.

Precipitation data were recorded from simple aluminum rain gauges installed at each exclosure. Precipitation data were recorded four times a year - April 15, July 1, September 1, and October 15.

Metal stakes were driven into the ground for permanent photo location points in the area where production studies are being conducted in each exclosure.

Names of plants which occurred in the production study areas are shown in Table 1. Included are the four letter code names by which the plants are idenified in the tabular material; genus, species, and common names, and life form and characteristic longevity of the plants.

1967 Results

A list, by counties, of production study areas is presented in Table II of the report. General location of exclosures were shown on maps in the 1964 report. The tabular data of production, cover, frequency, and precipitation are arranged alphabetically by exclosure or study area name following Table II.

Production clipping in 1967 was conducted both inside and outside the exclosures to determine the influence of grazing upon the vegetation during the six previous years. In some instances significant variations in production were noted outside the exclosures as compared to inside. Some areas however, showed very little difference. At the exclosures where sagebrush had been controlled, response of understory vegetation to the procedure was easily visible both inside and outside. Production values were lower in the grazed areas but was greater on the sprayed sites than on the non-sprayed. Both Upper and Lower Government Draw study areas showed moderate to heavy use outside the exclosure on the clipping dates.

The influence of the wet spring and summer of 1967, which increased plant growth, was evident in the production values of the study areas. However, production on the areas was probably adversely affected by the extremely dry spring and summer of the previous year, 1966.

TABLE I. LIST OF PLANT NAMES WHICH OCCURRED IN PRODUCTION STUDY AREAS

Code	Genus - Species	Common Name	Life Form	Longevity
AGCR	Agropyron cristatum	Crested wheatgrass	Grass	Perennial
AGGR	Agropyron griffithsii	Griffith's wheatgrass	Grass	Perennial
AGSM	Agropyron smithii	Western wheatgrass	Grass	Perennial
AGSP	Agropyron spicatum	Bluebunch wheatgrass	Grass	Perennial
ALTE	Allium textile	Textile onion	Forb	Perennial
ANRO	Antennaria rosea	Rose pussytoes	Forb	Perennial
ARA	Arabis spp.	Rockcress	Forb	Perennial
ARAR	Artemisia arbuscula	Low sagebrush	Shrub	Perennial
ARDR	Arabis drummondii	Rockcress	Forb	Perennial
ARHO	Arenaria hookeri	Hooker sandwort	Forb	Perennial
ARNO	Artemisia nova	Black sagebrush	Shrub	Perennial
ARPE	Artemisia pedatifida	Brown sagebrush	Half-shrub	Perennial
ARSP	Artemisia spinescens	Bud sagebrush	Half-shrub	Perennia1
ARTR	Artemisia tridentata	Big sagebrush	Shrub	Perennial
ASMI	Astragalus missouriensis	Missouri milkvetch	Forb	Perennial
AST	Astragalus spp.	Milkvetch	Forb	Perennial
ATAR	Atriplex argentea	Silverscale saltbush	Forb	Annual
ATNU	Atriplex nuttallii	Nuttall saltbush	Half-shrub	Perennial
BOGR	Bouteloua gracilis	Blue grama	Grass	Perennial
BRCO	Bromus commutatus	Hairy chess	Grass	Annual
BRJA	Bromus japonicus	Japanese chess	Grass	Annua1
BRTE	Bromus tectorum	Cheatgrass	Grass	Annua1
CAEL	Carex eleocharis	Needleleaf sedge	Sedge	Perennial
CAFI	Carex filifolia	Threadleaf sedge	Sedge	Perennial
CAMI	Camelina microcarpa	Littlepod falseflax	Forb	Annua1
CANU	Calochortus nuttallii	Sego lily	Forb	Perennial
CAS	Castilleja spp.	Paintbrush	Forb	Perennial
CHAL	Chenopodium album	Lambsquarter	Forb	Annua1
CHTE	Chorispora tenella	Chorispora	Forb	Annual
CHVI	Chrysothamnus viscidiflorus	Green rabbitbrush	Shrub	Perennial
CLSE	Cleome serrulata	Rocky Mt. bee plant	Forb	Annua1
CRBR	Cryptantha bradburiana	Miners candle	Forb	Perennial
CRE	Crepis spp.	Hawksbeard	Forb	
CREL	Crepis elegans	Showy hawksbeard	Forb	Perennial
DEPI	Descurainia pinnata	Pinnate tansymustard	Forb	Annual
ERCO	Erigeron compositus	Fernleaf fleabane	Forb	Perennial
ERI	Erigeron spp.	Fleabane	Forb	Perennial
ERI2	Eriogonum spp.	Eriogonum	Forb	
ERMI	Eriogonum microthecum	Slenderbrush eriogonum	Forb	Perennial
EROV	Eriogonum ovalifolium	Cushion eriogonum	Forb	Perennia1
ERPU	Erigeron pumilus	Fleabane	Forb	Perennial
EULA	Eurotia lanata	Winterfat	Half-shrub	Perennial
EUSE	Euphorbia serphyllifolia	Thyme-leaved spurge	Forb	Annual
FEOC	Festuca octoflora	Sixweek fescue	Grass	Annual
GACO	Gaura coccinea	Scarlet gaura	Forb	Perennial
GIL	Gilia spp.	Gilia	Forb	Annual
GILE	Gilia leptomeria	Gilia	Forb	Annual
GIPU	Gilia pumila	Gilia	Forb	Annual
GISP	Gilia spicata	Spike gilia	Forb	Perennial
0101	ollia opicata	phano Para	1010	- OI CHILLAI

ELLYPERION		Codwin Fires		
			Agrippino untaración	
				4-
			Artemisin apinescen.	
	Mair-shrub			
	02020			
				1.1.10
			Camelina migrocarpa	
			Cartulate app.	
		illenes cambin		
				1140
	0207			
		Slenderbruun aetegenus		
			aulimuq rosegirl	
				RESID

GUSA	Gutierrezia sarothrae	Broom snakeweed	Half-shrub	Perennial
HAAC	Haplopappus acaulis	Stemless goldenweed	Forb	Perennial
HAGL	Halogeton glomeratus	Halogeton	Forb	Annual
HEAN	Helianthus annuus	Annual sunflower	Forb	Annual
HOPU	Hordeum pusillum	Little barley	Grass	Annual
HYAC	Hymenoxys acaulis	Stemless hymenoxys	Forb	Perennial
JUSC	Juniperus scopulorum	Rocky Mt. red cedar	Shrub	Perennial
KOCR	Koeleria cristata	Junegrass	Grass	Perennial
KOSC	Kochia scoparia	Fireweed	Forb	Annual
LAC	Lactuca spp.	Lettuce	Forb	Annual
LARE	Lappula redowskii	Stickseed	Forb	Annual
LATE	Lappula texana	Stickseed	Forb	Annual
LEAL	Lesquerella alpina	Alkaline bladderpod	Forb	Perennial
LEDE	Lepidium densiflorum	Prairie pepperweed	Forb	Annual
LEPE	Lepidium perfoliatum	Clasping pepperweed	Forb	Annual
LEPU	Leptodactylon pungens	Granite gilia	Forb	Perennial
LERE	Lewisia rediviva	Bitterroot	Forb	Perennial
LES	Lesquerella spp.	Bladderpod	Forb	Perennial
LOOR	Lomatium orientale	Eastern lomatium	Forb	Perennial
LUPU	The state of the s	Rusty lupine	Forb	Annual
LYG	Lupinus pusillus	Skeletonplant	Forb	mindai
MATA	Lygodesmia spp. Machaeranthera tanacetifolia		Forb	Annual
MUDI	Musineon divaricatum	Falsecarrot	Forb	Perennial
MUSQ	Munroa squarrosa	False buffalograss	Grass	Annual
OECA	Oenothera caespitosa	Tufted eveningprimrose	Forb	Perennial
OEN	Oenothera spp.	Eveningprimrose	Forb	
OESC	Oenothera scapoidea	Eveningprimrose	Forb	Annual
OPPO	Opuntia polyacantha	Plains pricklypear	Forb	Perennial
ORHY	Oryzopsis hymenoides	Indian ricegrass	Grass	Perennial
ORO	Orobanche spp.	Broomrape	Forb	
PASE	Paronychia sessiliflora	Stemless nailwort	Forb	Perennial
PEAL	Penstemon albertinus	Alberta penstemon	Forb	Perennial
PEN	Penstemon spp.	Penstemon	Forb	Perennial
PHAU	Physaria australis	Twinpod	Forb	Perennial
РННО	Phlox hoodii	Hood's phlox	Forb	Perennial
PHL	Phlox spp.	Phlox	Forb	
PLPA	Plantago patagonica	Wooly indianwheat	Forb	Annual
PLSP	Plantago spinescens	Spiny indianwheat	Forb	Annual
POAV	Polygonum aviculare	Prostrate knotweed	Forb	Annual
POFE	Poa fendleriana	Muttongrass	Grass	Perennial
POSE	Poa secunda	Sandberg bluegrass	Grass	Perennial
SAKA	Salsola kali	Russian thistle	Forb	Annual
SAVE	Sarcobatus vermiculatus	Greasewood	Shrub	Perennial
SIHY	Sitanion hystrix	Squirreltail bottlebrush	Grass	Perennial
SILI	Sisymbrium linifolium	Tumblemustard	Forb	Annual
SIS	Sisymbrium spp.	Tumblemustard	Forb	Annual
SPAI	Sporobolus airoides	Alkali sacaton	Grass	Perennial
SPCO	Spaeralcea coccinea	Scarlet globemallow	Forb	Perennial
SPCR	Sporobolus cryptandrus	Sand dropseed	Grass	Perennial
STCO	Stipa comata	Needleandthread	Grass	Perennial
STI	Stipa spp.	Needlegrass	Grass	Perennial
SYM	Symphoricarpos spp.	Buckbrush	Shrub	Perennial

Code	Genus - Species	Common Name	Life Form	Longevity
TAOF	Taraxacum officinale	Common dandelion	Forb	Perennial
TECA	Tetradymia canescens	Gray horsebrush	Shrub	Perennial
TRA	Tragopogon spp.	Salsify	Forb	
TRDU	Tragopogon dubius	Salsify	Forb	Biennial
TRI	Trifolium spp.	Clover	Forb	
UNK	Unknown spp.			
VIAM	Vicia americana	American vetch	Forb	Perennial
VIO	Violaceae	Violet family	Forb	Perennial
VIVA	Viola vallicola	Nuttall violet	Forb	Perennial
ZYG	Zygadenus spp.	Death camas	Forb	Perennial

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Table II. An alphabetical listing of study area, the county where each occurs and the treatments studied in each area.

County Name				
Code	Exclosure Name	County	Tre	eatment
1001	Ant Erad. Lander Exc.	Fremont	Inside	Native
			Outside	Native
1002	Boysen Reservoir Exc.	Fremont	Inside	Native
			Outside	Native
1003	Lower Gov't Draw Exc.	Fremont	Inside	Native
			Inside	Spray
			Outside	Native
			Outside	Spray
1004	McGraw Flat Exc.	Fremont	Inside	Native
			Outside	Native
1005	Sweetwater Exc.	Fremont	Inside	Native
			Outside	Native
1006	Upper Gov't Draw Exc.	Fremont	Inside	Native
			Inside	Spray
			Outside	Native
			Outside	Spray
1007	Granite Mountain Exc.	Fremont	Inside	Native
			Inside	Spray
			Outside	Native
			Outside	Spray
2002	Buffalo Creek Exc.	Washakie	Inside	Native
2000	A CONTRACTOR OF THE CONTRACTOR		Outside	Native
2003	Burnt Wagon Exc.	Washakie	Inside	Native
2007	T		Outside	Native
2004	Demer Exc.	Washakie	Inside	Native
2005	D . 1 M. 1 D1 . D		Outside	Native
2005	Dutch Nick Flat Exc.	Washakie	Inside	Native
2006	Hant Dantum Erra		Outside	Native
2006	West Pasture Exc.	Washakie	Inside	Native
2007	Dead Winds 11 Fees	II ab alas a	Outside	Native
2007	Bud Kimball Exc.	Washakie	Inside Inside	Native
			Outside	Spray
			Outside	Native
2009	Smilo Exc.	Washakie	Inside	Spray Native
2009	SHIIO Exc.	Washakie	Inside	
			Outside	Spray Native
			Outside	Spray
2010	Two Mile Hill Exc.	Washakie	Inside	Native
2010	TWO FILLE HILL BAC.	Washakie	Outside	Native
1501	Cochran Exc.	Hot Springs	Inside	Native
1301	Joenian Dac.	not obtings	Inside	Spray
			Inside	Pitted
			Inside	Cultivate
			Outside	Native
			Outside	
			outside	Spray

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		real treatment of the	

County Name	E1	0		
Code	Exclosure Name	County	Tr	eatment
1502	Kirby Creek Ex.	Hot Springs	Inside	Native
		4	Outside	Native
1503	North Butte Relic Area			
	(Thermopolis)	Hot Springs		
1504	Round Top Relic Area	Hot Springs		
1505	Sand Gulch Exc.	Hot Springs	Inside	Native
			Outside	Native
0901	Halogeton Pasture #1	Big Horn	Inside	Native
0902	Halogeton Pasture #2	Big Horn	Inside	Native
0903	Halogeton Pasture #3	Big Horn	Inside	Native
0904	Halogeton Pasture #1	Big Horn	Outside	Native
0905	Halogeton Pasture #2	Big Horn		
0907	Halogeton Pasture #4a	Big Horn		
0908	Halogeton Pasture #4b	Big Horn		
0909	Halogeton Pasture #5	Big Horn		
0910	Halogeton Pasture #6	Big Horn		
0911	Halogeton Pasture #7a	Big Horn		
0912	Halogeton Pasture #7b	Big Horn		
0913	Horse Creek Exc.	Big Horn	Inside	AGSM
		-6	Inside	AGSP
			Outside	AGSM
			Outside	AGSP
0404	Farson Exc.	Sweetwater	Inside	Native
0 10 1	Idibon BAC.	DWCCLWGLCI	Outside	Native
1901	Cumberland Exc. #1	Uinta	Inside	Native
1701	Cumbertand Lxc. #1	Oliica	Inside	Spray
			Outside	Native
			Outside	Spray
1902	Cumberland Exc. #4	Uinta	Inside	Native
1902	Cumbertand Exc. 1/4	Ulita	Outside	Native
1201	Cumberland Exc. #2	Lincoln	Inside	Native
1201	Gumberrand Exc. 7/2	HIHCOIH	Inside	
			Outside	Spray
				Native
1202	Cumberland Exc. #3	I in a a l n	Outside	Spray
1202	Cumpertand Exc. #5	Lincoln	Inside	Native
*			Inside	Spray
			Outside	Native
			Outside	Spray

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Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

		* 11						
Ant Eradi- cation Lander Inside Native 8/22/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20 /sq.ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR CAEL BOGR STCO POSE AGSM SIHY ANNUAL FORBS PLPA GILIA SPP. LEDE PERENNIAL FORBS SPCO ERPU *OPPO	135.00 .70 1.00 4.50 13.00 15.20 .50 2.50 2.00 .10 .40	6.75 .04 .05 .23 .65 .76 .03 .10 .01 .02	2.09 2.62 12.04 34.04 39.79 1.57 5.24 .52 1.05	13 3 1 3 14 20 1 1 5 12 1 4	.36 .26 6.43 7.99 29.06 .17	.12 .26 2.14 .57 1.45 .17	.51 .26 1.43 .61 1.91 .34	1.73 1.25 30.86 38.35 139.49 .82
TOTAL *Not compute	d in perce	1.91 ent compos	100.00		51.26			246.05
	Precipi	tation Dat	·a•					

Precipitation Data:

R. G. #5 - Ant Eradication Exc. Lander
October 15 to April 15 = 1.37
April 15 to July 1 = 6.21
July 1 to September 1 = .29
September 1 to October 15 = 1.14
Season Total = 9.01
Long Term Average = 8.22

Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

							7	
Ant Eradi- cation Lander Outside Native	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20 /sq.ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	C .	Е	F	G	Н	I
*ARTR AGSM ORHY BOGR POSE STCO	177.00 14.90 2.50 23.00 13.00 1.00	8.85 .75 .13 1.15 .65	25.00 4.33 38.34 21.67 1.67	11 18 3 3 11 2	22.58 3.23 5.99 3.95 .99	1.25 1.08 2.00 .36 .50	1.52 1.29 .26 .30 .99	108.38 15.50 28.75 18.96 4.75
ANNUAL FORBS DEPI PLPA LEDE CHAL GILIA SPP.	4.80 .10 3.60 .70 .20	.01 .18 .04 .01	.33 6.00 1.33 .33	13 1 10 7 2	9.09	.70	1.89	43.63
PERENNIAL FORBS *OPPO SPCO *PHHO	.40 26.00 .40 3.00	1.30 .02 .15	.67	4 3 4 2	.41	.10	1.03	1.97
TOTAL *Not comput	ed in perc	3.00 ent compos	100.00		46.24			221.94
	Precipi	tation Da	ta:			-		

Precipitation Data:

R. G. #5 - Ant Eradication Exc. Lander October 15 to April 15 = 1.37 April 15 to July 1 = 6.21 July 1 to September 1 = .29 September 1 to October 15 = 1.14 Season Total = 9.01 Long Term Average = 8.22

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Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Boysen Exclosure Inside Native 7/28/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20 /sq.ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
BOGR SPCR	119.00 2.50	5.95 .13	94.89 2.07	20 2	68.36 1.38	3.42	.57	328.13 6.62
ANNUAL FORBS CLSE HAGL CHAL EUSE	2.40 1.20 .90 .10 .20	.06 .05 .01	.96 .80 .16	9 3 5 1 2	4.84	. 54	2.02	23.23
PERENNIAL FORBS SPCO AST	1.00 .30 .70	.02	.32	6 3 3	9.56	1.59	9.56	45.89
TOTAL		6.27	100.00		84.14			403.87
*Not comput	ed in perc	ent compos	ition					

Precipitation Data:

R. G. # 10 - Boysen Resevoir		
October 15 to April 15	=	.87
April 15 to July 1	= 5	.19
July 1 to September 1	=	. 25
September 1 to October 15	= 1	. 24
Season Total	= 7	.55
Long Term Average	= 4	.78

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Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Boysen Exclosure Outside Native 7/28/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
BOGR SPCR MUSQ ANNUAL FORBS MATA ATAR HAGL LATE EUSE PERENNIAL FORBS SPCO AST *OPPO	77.10 .50 .50 .50 .3.30 .10 1.00 1.40 .10 .70	3.86 .03 .03 .03 .01 .05 .07 .01 .04	87.12 .68 .68 .68 .23 .90 2.03 5.42	17 1 5 14 1 2 6 1 7	44.95 .11 .32 20.44	2.64 .11 .06	.58 .22 .64 6.19	215.76 .53 1.54 98.11
TOTAL		4.43	100.00		85.62			410.98
*Not comput		ent compos						

Precipitation Data:

R. G. #10 - Boysen Resevoir

October 15 to April 15 = .87

April 15 to July 1 = 5.19

July 1 to September 1 = .25

September 1 to October 15 = 1.24

Season Total = 7.55

Long Term Average = 4.78

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Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Bud Kimball Inside Native 7/18/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F — E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR POSE AGSM SIHY FEOC ANNUAL FORBS DEPI LEDE PLSP PERENNIAL FORBS LERE *PHHO	224.70 12.60 3.20 .60 .10 9.30 1.00 1.90 6.40	11.24 .63 .16 .03 .01	 46.32 11.76 2.21 .74 3.68 7.35 23.53	13 17 10 2 1 20 10 15 19	5.32 10.84 1.44 .01 65.06	.31 1.08 .72 .01 3.25	.42 3.39 2.40 .10 7.00	25.54 52.03 6.91 .05 312.29
*OPPO	25.00	1.25		2		,		
TOTAL	ed in perc	1.36	100.00		83.11			398.93
								////
	Danaga	tation Date						

Precipitation Data:

R. G. #41 - Bud Kimball Exc. October 15 to April 15

= 2.60

April 15 to July 1 July 1 to September 1 = 6.50

September 1 to October 15

= 1.12= 2.00

Season Total

=12.22

Long Term Average

= 9.18

Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Bud Kimball Outside Native 7/18/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F : E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*ARTR FEOC AGSM SIHY POSE	236.00 .10 2.80 .10 32.40	11.80 .01 .14 .01 1.62	 .46 6.39 .46 73.96	10 1 16 1 19	.32 11.60 .50 13.95	.32 .73 .50 .73	3.20 4.14 5.00 .43	1.54 55.68 2.40 66.96
ANNUAL FORBS PLSP DEPI LEDE GIPU UNK	7.30 2.00 1.20 1.60 .10 2.40	.10 .06 .08 .01	4.57 2.74 3.65 .46 5.48	20 16 12 16 1	44.65	2.23	6.12	214.32
PERENNIAL FORBS LERE LOOR ERI *PHHO *OPPO	.50 .30 .10 .10 24.00 21.00	.02 .01 .01 1.20 1.05	.91 .46 .46	4 3 1 1 6 3	1.56	.39	3.12	7.49
TOTAL *Not comput	ed in perc	2.19	100.00 ition		72.58			348.39
	D	tation Dat						

Precipitation Data:

R. G. #41 - Bud Kimball Exc.

October 15 to April 15 = 2.60

April 15 to July 1 = 6.50

July 1 to September 1 = 1.12

September 1 to October 15 = 2.00

Season Total = 12.22

Long Term Average = 9.18

.

Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

	~		-		y-1	y	·	-
Bud Kimball Inside Sprayed 7/18/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F E	Wgt./ Unit Basal Area F E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM POSE SIHY STCO ANNUAL FORBS PLSP DEPI LEDE LARE LAC UNK	9.00 12.50 16.80 8.00 2.10 9.20 2.30 1.80 1.20 .60 .30 3.00	.45 .63 .84 .40 .11	25.52 34.02 16.19 4.45 4.86 3.64 2.43 1.21 .81 6.07	1 19 17 4 2 20 11 14 12 6 3 18	96.21 10.65 25.29 25.46	5.06 .63 6.32 12.73	7.70 .63 3.16 12.12	461.81 51.12 121.39 122.21 427.63
PERENNIAL FORBS LOOR LERE *PHHO *OPPO	.20 .10 .10 1.00 92.00	.01 .01 .05 4.60	.40 .40	2 1 1 1 4	.80	.40	4.00	3.84
TOTAL *Not comput	ed in perc	2.47 ent compos	100.00		247.50			1188.00
	Precipi	tation Dat	a:					

Precipitation Data:

R. G. #41 - Bud Kimball Exc.

October 15 to April 15 = 2.60

April 15 to July 1 = 6.50

July 1 to September 1 = 1.12

September 1 to October 15 = 2.00

Season Total = 12.22

Long Term Average = 9.18

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Plot Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Bud Kimball Outside Sprayed 7/18/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F: E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
1	A	В	С	E	F	G	Н	I
POSE AGSM FEOC ANNUAL FORBS PLSP DEPI CHAL LEDE GIL UNK PERENNIAL FORBS *OPPO	13.20 8.90 1.00 22.40 20.10 .30 .10 .60 .30 1.00	1.01 .02 .01 .02 .01 .02 .05	28.70 19.57 2.17 43.92 .87 .43 1.30 .87 2.17	11 20 10 2 20 19 19 3 1 16 13 16	6.77 49.16 21.25 .70 17.33 159.94 76.66	.62 2.46 1.13 .35 .87 8.42 4.51	5.52 1.25 3.50 38 7.14 1.67	32.50 235.97 6.00 83.18 767.71
TOTAL *Not comput	ed in perc	2.30 ent compos	100.00	75 13 41	217.12	. 68	3:99	1042.18
TOTAL		7,20	100.00		157.18			754.46

Precipitation Data:

R. G. #41 - Bud Kimball Exc.

October 15 to April 15 = 2.60
April 15 to July 1 = 6.50
July 1 to September 1 = 1.12
September 1 to October 15 = 2.00
Season Total = 12.22
Long Term Average = 9.18

Cong Torm Average

Plot Size 1 x 1

No. Plots 20 Cover Determined by Area Estimate

Pounds Per Acre F x 4.8	Wgt./ Unit Basal Area	Average Weight Per Plot Occur- rences F + E	Total Weight Cms/20/ Sq. ft.	Absolute Plot Frequency % Base 20	Percent Compo-	Average Percent basal Area	Total Trans. Basal Area Percent	Bud Kimbali Outside Sprayed 7/18/6/
T	er			3		the second secon	Λ	
52.50 55.90 6.00		2	1.25 25.9¢		\$0.50 \$0.50		00.1 00.1 00.1 01.0 00.1 00.1	POSE AGSM AUMI FORAS PISP CHAL CHAL LEDE OIL UNK
042.33				•				TOTAL
manne hazara belinye more ka			I I	A Seguration and tempologistics and the second plane is	Land of the second	ation Data		

R. G. #11 - DOG EDMORLE RAC. October 15 to april 15 - 2.c0 April 15 to July 1 e 6.50 July I to seprember ! 5 1 4 e 2,00 September 1 to October 15 =12.72 Season Tucki 91.0 = Long Term Average

Plot Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Buffalo Creek Inside Native 7/26/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur rences F - E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR EULA AGSM BRTE POSE BOGR AGSP ANNUAL FORBS LEDE PLSP DEPI CHAL LARE UNK PERENNIAL FORBS SPCO AST CRE *OPPO	97.00 3.00 6.20 .20 46.10 33.00 46.60 6.70 1.50 3.90 .80 .10 .30 .10	4.85 .15 .31 .01 2.31 1.65 2.33 .08 .20 .04 .01 .02 .01	2.08 4.26 .14 32.09 22.93 32.37 1.11 2.78 .56 .14 .28 .14	5 1 15 2 20 5 17 19 15 14 8 1 3 1	3.27 20.28 .70 17.33 15.66 76.66 18.49	3.27 1.35 .35 .87 3.13 4.51	1.09 3.27 3.50 .38 .47 1.67	15.70 97.34 3.36 83.18 75.17 367.97
*PHHO MUDI	6.00	.30	.14	4 1				
TOTAL *Not compu	ted in perc	7.20	100.00		157.18			754.46

Precipitation Data:

R. G. #7 - Buffalo Creek Exc.

October 15 to April 15 = 3.84

April 15 to July 1 = 9.96

July 1 to September 1 = 1.11

September 1 to October 15 = 1.65

Season Total = 16.56

Long Term Average = 9.95

Plot Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Native Basal Area Area Area Percent Basal Percent Basal Sition Percent Prequency Sition Weight Gms/20/ Sq. ft. Occurrences F ÷ E Basal Area Area Area Area Area Area Sition Percent Gms/20/ Sq. ft. Basal F ÷ E Per Area Area Area Area Area Area Area Ar		· · · · · · · · · · · · · · · · · · ·					_		
*ARTR	Creek Outside Native	Trans. Basal Area	Percent Basal	Compo-	Plot Frequency	Weight Gms/20/	Weight Per Plot Occur- rences	Unit Basal Area	
AGSM 12.40		A	В	С	E	F	G	H	I
FORBS 12.30	AGSM BRTE POSE BOGR	12.40 1.40 48.10 45.00	.62 .07 2.41 2.25	1.09 37.59 35.10	16 10 20	3.26 18.88 15.49	.33 .94 3.10	2.33 .39 .34	188.40 15.65 90.62 74.35 81.22
FORBS	FORBS LEDE DEPI PLSP LARE CHAL	.80 .30 10.60 .40 .10	.02 .53 .02 .01	.31 8.27 .31 .16	8 3 18 4 1	32.24	1.70	2.62	154.75
	FORBS ALTE SPCO AST *PHHO	.20 .20 .20 2.10	.01	.16	2 2 2 2 2	.63	.13	1.05	3.02
Description Date:			ent compos	ition		126.67			608.01

Precipitation Data:

R. G. #7 - Buffalo Creek Exc.

October 15 to April 15 = 3.84 April 15 to July 1 = 9.96 July 1 to September 1 = 1.11 September 1 to October 15 = 1.65 Season Total = 16.56 Long Term Average = 9.95 .

Plots Size 1 x 10

No. Plots 200

Cover Determined by Area Estimate

Burnt Wagon Inside Native	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ATNU	923.10 5.90	4.62	96.23 .63	81 22	432.16 1.18	5.34	. 47 . 20	207.44
ANNUAL FORBS CHAL EUSE	21.10 18.40 1.70	.09	1.88	133 128 17	11.96	.09	_. 57	5.74
PERENNIAL FORBS ALTE MUDI	8.70 5.00 3.70	.03	.63	71 46 33	1.66	.02	.19	。80
TOTAL		4.80	100.00		446.96	3		214.55
*Not compu	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #17 - Burnt Wagon Exc.

October 15 to April 15 = 1.43
April 15 to July 1 = 4.20
July 1 to September 1 = .35
September 1 to October 15 = 1.96
Season Total = 7.94
Long Term Average = 6.13

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Plots Size 1 x 10

No. Plots 200

Cover Determined by Area Estimate

Burnt Wagon Outside Native	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ATNU ARPE SIHY	1190.40 .60 2.20	5.95 T	97.07	118 2 9	654.37 .01 .42	5.55 .01 .05	.55 .02 .19	314.10 .01 .20
ANNUAL FORBS CHAL LARE EUSE	17.90 16.70 .10 1.10	.08 T	1.30	133 131 1 1	19.29	.15	1.08	9.26
PERENNIAL FORBS ALTE MUDI *OPPO	14.70 3.40 11.30 9.60	.02 .06 .05	.33	76 34 52 3	9.80	.13	. 67	4.70
TOTAL		6.13	100.00		683.89			328.27
*Not compu	ed in perc	ent compos	ition					
T - Trace								
						44		
	Description	tation Dat						

Precipitation Data:

= 6.13

R. G. #17 - Burnt Wagon Exc.

Long Term Average

October 15 to April 15 = 1.43
April 15 to July 1 = 4.20
July 1 to September 1 = .35
September 1 to October 15 = 1.96
Season Total = 7.94

Plots Size 1 x 1

No. Plots 20

Cover Determined	by	Area	Estimate
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Cochran Inside Native 7/26/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM POSE FEOC BRTE STCO ANNUAL FORBS DEPI LEDE UNK PLSP CHAL LARE EUSE PERENNIAL FORBS ALTE *PHHO *OPPO MUDI	246.00 15.30 27.50 .30 1.90 3.50 5.50 1.60 1.00 .40 .80 1.40 .20 .10	12.30 .77 1.38 .02 .10 .18 .08 .05 .02 .04 .07 .01 .01	27.39 49.10 .71 3.56 6.41 2.85 1.78 .71 1.42 2.49 .36 .36 1.78 1.78 36	9 19 18 3 10 2 19 12 10 4 8 14 2 1	38.17 10.72 .06 10.16 4.92	2.01 .60 .02 1.02 2.46	2.49 .39 .20 5.35 1.41 1.86	183.22 51.46 .29 48.77 23.62 49.15
ERPU SPCO	.10	.01	.36	1 1				
TOTAL *Not compu	ted in perc	2.81	100.00		76.34			366,45

Precipitation Data:

R. G. #76 - Cochran Exc.

October 15 to April 15 = 2.73

April 15 to July 1 = 7.89

July 1 to September 1 = .76

September 1 to October 15 = 1.38

Season Total = 12.76

Long Term Average = 10.56

- - -. 1

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Cochran Outside Native 7/27/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*ARTR AGSM POSE FEOC BRTE BOGR ANNUAL FORBS PLSP LEDE CHAL LARE GIL UNK	165.00 13.90 20.60 .80 2.00 7.00 1.70 .70 .20 .20 .40 .10	8.25 .70 1.03 .04 .10 .35	29.91 44.01 1.71 4.27 14.96 1.71 .43 .43 .43 .85 .43 .43	10 20 20 8 16 2 13 7 2 2 4 1	34.89 7.41 .30 3.43 1.36	1.74 .37 .04 .21 .68	2.51 .36 .38 1.72 .19	167.47 35.57 1.44 16.46 6.53
PERENNIAL FORBS ALTE CANU *OPPO	.30 - .10 .20 5.20	.01 .01 .26	.43	3 1 2 3	.86	. 29	2.87	4.13
*РННО	8.00	.40		2				
TOTAL *Not compu	ted in perd				48.74			233.95
Precipitation Data:								

Precipitation Data:

R. G. #76 - Cochran Exc. October 15 to April 15

= 2.73April 15 to July 1 = 7.89

July 1 to September 1 = .76

September 1 to October 15 = 1.38Season Total =12.76

=10.56 Long Term Average

Plots Size 1 x 1

No. Plots 20

Cover	Determined	bv	Area	Estimate
COACT	Deretimen	Uy	ALCa	Doctmare

				8.				
Cochran Inside Sprayed 7/26/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F - E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM BRTE POSE FEOC	290.00 22.10 4.40 15.50 .60	14.50 1.11 .22 .78 .03	46.65 9.24 32.77 1.26	13 19 16 16 2	69.68 30.75 5.09 .29	3.67 1.92 .32 .15	3.15 6.99 .33 .48	334.46 147.60 24.43 1.39
ANNUAL FORBS LEDE PLSP LARE DEPI CHAL UNK	4.10 1.20 .80 .20 .60 1.10	 .06 .04 .01 .03 .06 .01	2.52 1.68 .42 1.26 2.52 .42	18 12 8 2 6 7 2	3.92	. 22	. 96	18.82
PERENNIAL FORBS ERPU *OPPO	.50 .50 12.10	.03 .61	1.26 	1 1 2	1.14	1.14	2.28	5.47
TOTAL *Not compu	ted in perc	2.38	100.00		110.87			532.17
	D : :	tation Dat						

Precipitation Data:

R. G. #76 - Cochran Exc.

October 15 to April 15 = 2.73April 15 to July 1 = 7.89July 1 to September 1 = .76 September 1 to October 15 = 1.38=12.76 Season Total =10.56 Long Term Average

PERSONAL RELIGIO DE LECTURA DE PROPERTO DE LA CONTRE DEL CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE D

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cochran Outside Sprayed 7/27/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
AGSM BRTE POSE BOGR FEOC ANNUAL FORBS LARE PLSP CHAL LEDE UNK PERENNIAL FORBS *OPPO	7.20 8.00 32.20 50.20 .20 6.80 .90 4.10 .40 1.30 .10	.36 .40 1.61 2.51 .01 .05 .21 .02 .07 .01	6.86 7.62 30.67 47.81 .19 .95 4.00 .38 1.33 .19	18 20 20 4 2 20 9 15 4 9	26.52 27.51 8.62 12.94 .06	1.47 1.38 .43 3.24 .03	3.68 3.44 .27 .26 .30	127.30 132.05 41.38 62.11 .29
TOTAL	e se est	5.25	100.00	50	99.91			479.58
*Not comp	ted in perd	ent compos	ition					
	Procini	tation Dat	2.					

Precipitation Data:

R. G. #76 - Cochran Exc.

October 15 to April 15 = 2.73

April 15 to July 1 = 7.89

July 1 to September 1 = .76

September 1 to October 15 = 1.38

Season Total = 12.76

Long Term Average = 10.56

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Plot Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Cochran Inside Cultivated 7/27/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F÷E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*ARTR AGSM BRTE POSE FEOC AGSP	239.00 15.40 6.00 15.10 .20 4.00	11.95 .77 .30 .76 .01	32.36 12.61 31.93 .42 8.40	8 18 18 15 2 1	42.17 21.70 7.49 .03 4.54	2.34 1.21 .50 .02 4.54	2.74 3.62 .50 .15 1.14	202.42 104.16 35.95 .14 21.79
ANNUAL FORBS LEDE LARE DEPI PLSP CHAL UNK	5.40 1.20 .40 .60 1.00 1.90 .30	 .06 .02 .03 .05 .10	2.52 .84 1.26 2.10 4.20 .84	19 12 4 6 6 6 3	11.01	. 58	2.04	52.85
PERENNIAL FORBS ERPU ALTE SPCO *OPPO	1.00 .10 .80 .10 51.00	.01 .04 .01 2.55	 .42 1.68 .42	6 1 4 1 2	1.09	.18	1.09	5.23
TOTAL *Not comput	ed in perc	2.38	100.00 ition		88.03			422.54

Precipitation Data:

R. G. #/6 - Cochran Exc.	
October 15 to April 15	= 2.73
April 15 to July 1	= 7.89
July 1 to September 1	= .76
September 1 to October 15	= 1.38
Season Total	=12.76
Long Term Average	=10.56

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cochran Inside Pitted 7/27/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*ARTR AGSM POSE BRTE FEOC STCO ANNUAL FORBS LEDE DEPI CHAL PLSP LARE	260.00 15.30 19.50 4.90 2.40 2.10 2.60 .50 .30 .60 .80 .40	13.00 .77 .98 .25 .12 .11	32.08 40.84 10.42 5.00 4.58 1.25 .83 1.25 1.67 .83	10 19 18 16 16 2 17 5 3 6 8 4	53.11 9.92 14.02 .98 2.10	2.80 .55 .88 .06 1.05	3.47 .51 2.86 .41 1.00	254.93 47.62 67.30 4.70 10.08
PERENNIAL FORBS MUDI ALTE *OPPO	.40 .30 .10 17.00	.02 .01 .85	 .83 .42	4 3 1 4	.09	.02	. 23	.43
TOTAL *Not compu	ted in perc	2.40 ent compos	100.00		81.71			392.21

Precipitation Data:

R. G. #76 - Cochran Exc.

October 15 to April 15 = 2.73

April 15 to July 1 = 7.89

July 1 to September 1 = .76

September 1 to October 15 = 1.38

Season Total = 12.76

Long Term Average = 10.56

The control of the co

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimat	Cover	Determined	by	Area	Estimat
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Cumberland Exc. #1 Inside Native 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F E	Wgt./ Unit Basal Area F E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*SAVE *ARTR *CHVI ATNU AGSM POSE SIHY ANNUAL FORBS ATAR DEPI PERENNIAL FORBS PHL ERI	29.00 80.10 58.00 111.00 31.70 18.70 4.00	1.45 4.01 2.90 5.55 1.59 .94 .20	65.84 18.86 11.15 2.37 12 .12 .12	4 5 9 7 20 12 3	99.48 51.66 17.74 2.64	14.21 2.58 1.48 .88	.90 1.63 .95 .66	477.50 247.97 85.15 12.67
TOTAL		8.43	100.00		174.15			835.91
*Not comput	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #31 - Cumberland #1
October 15 to April 15 = 3.75
April 15 to July 1 = 5.18
July 1 to September 1 = .37
September 1 to October 15 = 1.62
Season Total = 10.92
Long Term Average = 9.11

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Cumberland Exc. #1 Outside Native 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.		Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *SAVE *CHVI ATNU AGSM POSE SIHY ANNUAL FORBS ATAR DEPI LARE PERENNIAL FORBS PHL	74.00 15.00 71.10 161.00 18.50 4.10 1.60 3.20 .70 .20 2.30	3.70 .75 3.56 8.05 .93 .21 .08	 84.83 9.80 2.21 .84	5 1 7 7 16 4 4 4 15 7 2 11	54.72 23.48 1.84 1.29	7.82 1.47 .46 .32	.34 1.27 .45 .81 3.04	262.66 112.70 8.83 6.19 46.66
TOTAL		9.49	100.00		92.04			441.79
*Not comput	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #31 - Cumberland #1
October 15 to April 15 = 3.75
April 15 to July 1 = 5.18
July 1 to September 1 = .37
September 1 to October 15 = 1.62
Season Total = 10.92
Long Term Average = 9.11

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #1 Inside Spray 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI POSE SIHY AGSM ANNUAL FORBS ATAR DEPI PERENNIAL FORBS	18.00 29.00 47.60 6.50 17.20	.90 1.45 2.38 .33 .86	63.65 8.82 22.99	1 5 10 3 17 5 1 4	30.62 12.59 41.16 6.19	3.06 4.20 2.42 1.24	.64 1.94 2.39 12.38	146.98 60.43 197.57 29.71
PHL	2.80	.14	3.74	12				
TOTAL		3.74	100.00		94.10			451.68
*Not comput	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #31 - Cumberland #1
October 15 to April 15 = 3.75
April 15 to July 1 = 5.18
July 1 to September 1 = .37
September 1 to October 15 = 1.62
Season Total = 10.92
Long Term Average = 9.11

				10 10 10 10 10 10 10 10 10 10 10 10 10 1

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #1 Outside Spray 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt. Unit Basal Area F : E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*SAVE *ARTR *CHVI AGSM SIHY POSE ORHY	55.00 2.00 33.00 27.10 8.10 11.60 1.00	2.75 .10 1.65 1.36 .41 .58	54.17 16.33 23.11 1.99	2 1 5 19 8 8 1	52.35 8.42 5.38 .35	2.76 1.05 .67 .35	1.93 1.04 .46 .35	251.28 40.42 25.82 1.68
ANNUAL FORBS ATAR DEPI LARE	1.60 .50 .50	 .03 .03 .03	1.20 1.20 1.20	11 5 5 2	9.26	.84	5,79	44.45
PERENNIAL FORBS PHL	.30	.02	.80	3 3	. 27	.09	.90	1.30
TOTAL		2.51	100.00		76.03			364.95
*Not comput	ed in perc	ent compos	ition					63.0.30

Precipitation Data:

R. G. #31 - Cumberland #1
October 15 to April 15 = 3.75
April 15 to July 1 = 5.18
July 1 to September 1 = .37
September 1 to October 15 = 1.62
Season Total = 10.92
Long Term Average = 9.11

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #2 Inside Native 8/16/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARAR *CHVI *ERMI AGSM POSE POFE STI PERENNIAL FORBS *LEPU CANU ASMI PHL ERI TRI CRE CAS SIS	191.50 43.50 10.00 20.20 50.00 1.50 2.00 53.70 20.00 .20 .10 38.70 13.50 .70 .20 .20 .10	9.58 2.18 .50 1.01 2.50 .08 .10 1.00 .01 .01 1.94 .68 .04 .01 .01 .01	15.78 39.05 1.25 1.56 16 .16 30.30 10.63 .63 .16 .16 .16	13 10 6 20 13 2 1 18 2 2 1 10 8 7 2 2 1	44.92 49.43 1.56 3.78	2.25 3.80 .78 3.78	2.22 .99 1.04 1.89	215.62 237.26 7.49 18.14
TOTAL		6.40	100.00		128.45			616.56
*Not comput	ed in perc	ent compos	ition					
		tation Dat	ę					

Precipitation Data:

R. G. #32 - Cumberland #2

 $= 6.20\frac{1}{}$ October 15 to April 15 = 4.20 April 15 to July 1 July 1 to September 1 = .42 September 1 to October 15 = 1.46=12.88 Season Total = 8.46Long Term Average

^{1/} - Reading was made on May 24, not April 15.

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Ex. #2 Outside Native 8/16/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARAR *CHVI *ERMI *SYM AGSM POSE POFE STI PERENNIAL FORBS ASMI ERPU CRE PHL CAS TRI ERI AST	111.30 29.00 27.00 5.00 13.70 41.00 23.00 4.00 5.90 .60 .20 .30 .30 .10 .90 2.50 1.00	5.57 1.45 1.35 .25 .69 2.05 1.15 .20 .03 .01 .02 .02 .02 .01 .05 .13 .05	15.65 46.48 26.08 4.54 68 .23 .45 .45 .23 1.13 2.95 1.13	11 6 8 1 18 15 7 1 1 2 2 3 3 1 9 3 1	15.91 14.32 4.83 1.01	.88 .95 .69 1.01	1.16 .35 .21 .25	76.37 68.74 23.18 4.85
TOTAL		4.41	100.00		42.54			204.20
*Not comput	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #32 - Cumberland #2

October 15 to April 15 = $6.20^{1/2}$ April 15 to July 1 = 4.20July 1 to September 1 = .42

September 1 to October 15 = 1.46Season Total = 12.88Long Term Average = 8.46

^{1/} - Reading was made on May 24, not April 15.

*

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #2 Inside Sprayed Sprayed Sprayed Area Percent Area Percent Area Shoulte Frequency Sq. ftr. Frequency Sq. ftr.		pper de la composition della c							
*CHVI	Exc. #2 Inside Sprayed	Trans. Basal Area	Percent Basal	Compo-	Plot Frequency	Weight Gms/20/	Weight Per Plot Occur- rences	Unit Basal Area	Per
*ERMI 2.10 .11 3		A	В	С	E	F	G	Н	I
	*ERMI AGSM POSE POFE STI ANNUAL FORBS UNK PERENNIAL FORBS	2.10 58.60 93.00 4.50 2.00	.11 2.93 4.65 .23 .10	58.49 2.89 1.26	20 10 4 1 3 3	114.18 15.10 3.90	11.42 3.78 3.90	1.23 3.36 1.95	548.06 72.48 18.72
*Not computed in percent composition	TOTAL		7.95	100.00		331.18			1589.65
	*Not comput	ed in perc	ent compos	ition					
				T.					
Precinitation Data:									

Precipitation Data:

R. G. #32 - Cumberland #2

October 15 to April 15 = $6.20\frac{1}{2}$ April 15 to July 1 = 4.20July 1 to September 1 = .42

September 1 to October 15 = 1.46Season Total = 12.88Long Term Average = 8.46

^{1/ -} Reading was made on May 24, not April 15.

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #2 Outside Sprayed 8/16/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F — E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*CHVI *ERMI *TECA AGSM POSE POFE KOCR STI	2.00 7.00 5.00 35.60 11.00 11.60 1.00 4.00	.10 .35 .25 1.78 .55 .58 .05	 54.11 16.72 17.63 1.52 6.08	2 4 1 20 5 7 1 3	40.20 10.90 .94 .01 2.40	2.01 2.18 .13 .01	1.13 .99 .08 .01 .60	192.96 52.32 4.51 .05 11.52
ANNUAL FORBS DEPI CAMI CHAL	.70 .10 .10 .50	 .01 .01 .03	.30 .30 .91	3 1 1	.68	.23	.97	3.26
PERENNIAL FORBS *LEPU PHL TRI UNK *PHHO	1.30 2.00 .50 .70 .10 1.10	.10 .03 .04 .01	 .91 1.22 .31	10 1 5 7 1 2	.67	.07	.52	3.22
TOTAL *Not comput	ed in perce	3.29 ent compos			55,80			267.84

Precipitation Data:

R. G. #32 - Cumberland #2

October 15 to April 15 = 6.20^{-1} /

April 15 to July 1 = 4.20July 1 to September 1 = .42

September 1 to October 15 = 1.46Season Total = 12.88Long Term Average = 8.46

^{1/} - Reading was made on May 24, not April 15.

No. Flots 20

1 % 1 3210 23013

				Specially Inertal Lacks		Cunberland Bar. 82 Oscside Seraped Seraped
					2.00 7.00 5.00 35.60 11.60 11.60 1.00	
		78.				
	1		100:100			

President Date:

April 1s of April

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

B 00 3.15 00 2.36 00 .40 00 .05	A	E 10	F	G	Н	I
2.36	A					
1.53 20 .61 50 1.73 00 .10	1.15 35.09 13.99 39.68	16 1 1 8 15 15	2.96 27.92 18.52 21.29 1.02	2.96 3.49 1.23 1.42 1.02	2.96 .92 1.52 .62 .51	14.21 134.02 88.90 102.19 4.90
30	.92	8 8	4.79	.60	5.99	22.99
.01 .01 .01 .02 .01 .11 .03	.23 .23 .23 .2.52 2.98	18 2 2 1 1 13 13 6	7.87	. 44	1.38	37.78
			84.37			404.99
	20 .01 .00 .01 .00 .01 .20 .11 .50 .13 .0 .76	20 .01 .23 .00 .01 .23 .00 .01 .23 .20 .11 2.52 .50 .13 2.98 .00 .76	20 .01 .23 2 .00 .01 .23 1 .00 .01 .23 1 .20 .11 2.52 13 .50 .13 2.98 13 .00 .76 6	20 .01 .23 2 .00 .01 .23 1 .00 .01 .23 1 .20 .11 2.52 13 .50 .13 2.98 13 .00 .76 6	20 .01 .23 2 .00 .01 .23 1 .00 .01 .23 1 .20 .11 2.52 13 .50 .13 2.98 13 .00 .76 6	20 .01 .23 2 .01 .23 1 .01 .23 1 .01 .23 1 .02 .11 2.52 13 .03 .13 2.98 13 .01 .76 6 .02 .76 6 .03 .76 .76 .76

Precipitation Data:

R. G. #33 - Cumberland #3

October 15 to April 15 = 4.37

April 15 to July 1 = 5.27

July 1 to September 1 = .48

September 1 to October 15 = 1.43

Season Total =11.55

Long Term Average =10.46

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Cumberland Exc. #3 Outside Native 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. Ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI *ERMI AGSM POFE AGSP POSE SIHY STI ANNUAL FORBS CHAL UNK	389.00 66.00 37.00 21.60 10.50 1.00 14.50 .50 1.00	19.45 3.30 1.85 1.08 .53 .05 .73 .03 .05	 41.07 20.15 1.90 27.76 1.14 1.90	15 12 9 19 6 1 14 1 1	21.68 7.21 3.97 4.30 .61 .64	1.14 1.20 3.97 .31 .61 .64	1.00 .69 3.97 .30 1.22 .64	104.06 34.61 19.06 20.64 2.93 3.07
PERENNIAL FORBS SILI TRI PHL *PHHO	2.30 .10 1.20 1.00 3.10	 .01 .06 .05	 .38 2.28 1.90	16 1 12 10 4	2.65	.17	1.15	12.72
TOTAL *Not comput	ed in perc	2.63	100.00 tion		48.96			235.01

Precipita: on Data:

R. G. #33 - Cumberland #3

October 15 to April 15 = 4.37

April 15 to July 1 = 5.27

July 1 to September 1 = .48

September 1 to October 15 = 1.43

Season Total =11.55 Long Term Average =10.46 CHARLE AND PROCESS OF THE PROCESS OF THE PROPERTY OF THE PROPE

No. Pince of

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #3 Inside Spray 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F : E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	Е	F	G	Н	I
*TECA *CHVI AGSM POFE POSE AGSP STI PERENNIAL FORBS ASMI PHL TRI	5.00 8.10 25.50 42.60 18.50 21.00 3.00 4.60 .60 3.40 .60	.25 .41 1.28 2.13 .93 1.05 .15	22.18 36.91 16.12 18.20 2.60 52 2.95 .52	1 4 18 8 9 7 1	75.87 84.90 16.24 58.46 6.75	4.22 10.61 1.80 8.35 6.75	2.98 1.99 .88 2.78 2.25	364.18 407.52 77.95 280.61 32.40
TOTAL *Not comput	ed in perc	5.77 ent compos	100.00 tion		258.75			1242.00
	Progini							

Precipitation Data:

R. G. #33 - Cumberland #3

October 15 to April 15 = 4.37

April 15 to July 1 = 5.27

July 1 to September 1 = .48

September 1 to October 15 = 1.43

Season Total = 11.55

Long Term Average = 10.46

CLICATE AND AND AND AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRE

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Cumberland Exc. #3 Outside Spray 8/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI *ERMI AGSP POFE POSE AGSM STCO STI ANNUAL FORBS CHAL LAC PERENNIAL FORBS ASMI	8.00 6.00 15.00 2.00 8.00 31.10 29.50 2.00 4.00	.40 .30 .75 .10 .40 1.56 1.48 .10 .20	 2.44 9.78 38.15 36.20 2.44 4.90	1 2 3 3 16 16 1 2 2 1 1	9.14 10.22 12.39 119.23 6.10 4.34	1.71 3.41 .77 7.45 6.10 2.17	2.57 1.28 .40 4.04 3.05 1.09	24.67 49.06 59.41 572.30 29.28 20.83
PHL TRI *PHHO	1.30 .90 3.00	.07 .05 .15	1.71 1.22	13 9 1				
TOTAL *Not comput	ed in perc	4.09 ent compos	100.00		161.90			777.12

Precipitation Data:

F. G. #33 - Cumberland #3	
October 15 to April 15	= 4.37
April 15 to July 1	= 5.27
July 1 to September 1	= .48
September 1 to October 15	= 1.43
Season Total	=11.55
Long Term Average	=10.46

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Cumberland Exc. #4 Inside Native 8/18/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
EULA ARSP AGSM ORHY SIHY	54.50 35.00 8.00 1.00	2.73 1.75 .40 .05	55.05 35.28 8.06 1.01 .20	16 6 11 1	27.96 .52 9.15 .52 .12	1.75 .09 .83 .52	.51 .01 1.14 .52 1.20	134.21 2.50 43.92 2.50 .58
ANNUAL FORBS LARE	. 40 . 40	.02	.40	4 4	.05	.01	.13	٠ 24
PERENNIAL FORBS *PHHO	76.00	3.80		16				
TOTAL *Not comput	ed in perc	4.96	100.00		38.32			183.95

Precipitation Data:

R. G. #34 - Cumberland #4

October 15 to April 15 = 5.30

April 15 to July 1 = --
July 1 to September 1 = .29

September 1 to October 15 = 1.51

Season Total = --
Long Term Average = 7.97

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Total Trans. Basal Area	Average Percent Basal	Percent Compo-	Absolute Plot Frequency	Total Weight Gms/20/	Average Weight Per Plot Occur- rences F - F	Wgt./ Unit Basal Area	Pounds Per Acre F x 4.8
rercent	Alea	SICION	% Dase 20	oq. It.	r - L	r t E	r A 4.0
A	В	С	E	F	G	Н	I
7.10 22.00 22.00 9.20 .50	.36 1.10 1.10 .46 .03	11.80 36.07 36.07 15.08 .98	3 7 5 14 1	5.90 9.88 .49 10.25 .01	1.97 1.41 .10 .73 .01	.83 .45 .02 1.11 .02	28.32 47.42 2.35 49.20 .05
	3.05	100.00		26.53			127.34
ed in perd	ent compos:	ition					
	Trans. Basal Area Percent A 7.10 22.00 22.00 9.20 .50	Trans. Basal Area Percent A B 7.10 22.00 22.00 9.20 .50 .50 89.50 Average Percent Basal Area A B 7.40 246 .50 3.05	Trans. Basal Area Percent Basal Percent Basal Percent Basal Percent Composition A B C 7.10 22.00 1.10 22.00 1.10 36.07 22.00 9.20 .46 .50 .03 .98	Total Trans. Basal Percent Area Percent Area Percent Area Basal B	Total Trans. Basal Area Percent Area Percent Area Percent Area Basal Percent Area Basal Percent Area Basal Basal Area Basal Basa	Total Trans. Basal Area Average Percent Basal Area Percent Percent Basal Area Percent Compo- sition Absolute Plot Frequency % Base 20 Total Weight Gms/20/ Sq. ft. A B C E F G Total Weight Gms/20/ Sq. ft. F ÷ E E F G Total Weight Gms/20/ Sq. ft. F ÷ E F G Total Weight Frequency % Base 20 Sq. ft. F ÷ E G F G G Total Weight Frequency % Base 20 Sq. ft. F ÷ E G F G Total Weight Frequency % Base 20 F • F G Total Percent Basal Base 20 F • F G Total Percent Basal Percent Frequency Base 20 F • F G Total Percent Base 20 Total Percent Frequency Frequency Base 20 F • F G Total Percent Plot Base 20 Total Percent Frequency Base 20 Total Percent Plot Percent Plot Percent Plot Percent Plot Percent Base 20 Total Percent Percent Plot Percent Plot Percent Plot Perc	Total Trans. Basal Percent Area Percent Area Percent Area Percent Area Basal Area Percent Area Area Basal Area Area Area Basal Area Basal Area Area Area Area Area Basal C E F G H 7.10 36 11.80 36.07 7 9.88 1.41 22.00 1.10 36.07 7 9.88 1.41 .45 22.00 1.10 36.07 5 .49 .10 .02 9.20 .46 15.08 .98 1 10.25 .73 .111 .02 3.05 100.00 26.53

Precipitation Data:

R. G. #34 - Cumberland #4

October 15 to April 15 = 5.30

April 15 to July 1 = --
July 1 to September 1 = .29

September 1 to October 15 = 1.51

Season Total = --
Long Term Average = 7.97

CHEN ME DESCRIPTION OF THE PROPERTY HOLD WAS ARRESTED FOR THE PROPERTY OF THE

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Demer Inside Native 7/25/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR BOGR BRTE SIHY POSE FEOC AGSM ANNUAL FORBS DEPI LEDE CHAL LATE PLSP PERENNIAL FORBS *OPPO	165.00 20.00 3.60 3.10 25.60 1.70 1.10 2.30 .30 .70 .40 .10 .80	8.25 1.00 .18 .16 1.28 .09 .06	34.48 6.21 5.52 44.14 3.10 2.07 69 1.38 .69 .34 1.38	8 8 10 3 16 9 7 15 3 7 4 1 8	9.41 17.82 4.21 7.35 4.61 5.93	1.18 1.78 1.40 .46 .51 .85	.47 4.95 1.36 .29 2.71 5.39	45.17 85.54 20.21 35.28 22.13 28.46
TOTAL *Not compu	ted in perc	2.90	100.00		51.78			248.55

Precipitation Data:

R. G. #8 - Demer

October 15 to April 15 = 2.05

April 15 to July 1 = 4.60

July 1 to September 1 = .53

September 1 to October 15 = 1.82

Season Total = 9.00

Long Term Average = 7.79

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Admit and panel of Sentrated Street

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Demer Outside Native 7/25/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
6-	A	В	С	E	F	G	Н	I
*ARTR AGSM BRTE POSE SIHY FEOC BOGR ANNUAL FORBS PLSP LEDE CHAL PERENNIAL FORBS *OPPO	233.00 .10 5.10 13.10 3.60 .90 7.00 3.30 3.10 .10 .10	11.65 .01 .26 .66 .18 .05 .35	 .59 15.38 39.06 10.65 2.96 20.71	10 1 11 14 6 9 4 15 15 1 1	.19 12.00 3.81 4.58 .50 2.17	.19 1.09 .27 .76 .06 .54	1.90 2.35 .29 1.27 .56 .31	.91 57.60 18.29 21.98 2.40 10.42
TOTAL		1.69	100.00		28.79			138.19
*Not compu	ted in perc	ent compos	ition					

Precipitation Data:

R. G. #8 - Demer

October 15 to April 15 = 2.05

April 15 to July 1 = 4.60

July 1 to September 1 = .53

September 1 to October 15 = 1.82

Season Total = 9.00

Long Term Average = 7.79

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Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

								
Dutch Nick Flat Inside Native 7/10/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.		Wgt./ Unit Basal Area F = E	Pounds Per Acre F x ,48
	A	В	С	E	F	G	Н	I
ATNU ARPE BOGR POSE	50.10 5.00 1798.00 20.60	.25 .02 8.99 .10	2.62 .21 94.04 1.05	3 1 197 16	36.02 .38 680.96 5.80	12.01 .38 3.46 .36	.72 .08 .38 .28	17.29 .18 326.86 2.78
ANNUAL FORBS CHAL PLSP LATE MATA GIPU LUPU LEDE	37.70 20.00 7.70 2.30 .10 2.30 2.90 2.40	.10 .04 .01 T .01 .01	1.05 .42 .10 T .10 .10	121 82 45 7 1 15 8 16	157.19	1.30	4.17	75.45
PERENNIAL FORBS *OPPO VIAM	3.50 463.60 3.50	2.32	.21	13 77 13	17.23	1.33	4.92	8.27
TOTAL *Not comput T - Trace	ed in perc	9.56 ent compos	100.00 ition		897.58			430,83
	D	1 - 1 1 - D 4						

Precipitation Data:

R. G. #4 - Dutch Nick Flat Exc.

October 15 to April 15 = 1.40
April 15 to July 1 = 4.16
July 1 to September 1 = .91
September 1 to October 15 = 2.52
Season Total = 8.99
Long Term Average = 7.09

				Datch Mick Flat Inside Native 7/10/67

Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

Dutch Nick Flat Outside Native	Total Trans. Basal Area	Average Percent Basal	Percent Compo-	Absolute Plot Frequency	Total Weight Gms/200	Average Weight Per Plot Occur- rences	Wgt./ Unit Basal Area	Pounds Per Acre
7/11/67	Percent	Area	sition	%Base 200	/Sq. ft.	F E	F ° E	F x .48
	A	В	С	Е	F	G	Н	I
BOGR POSE STCO	1738.00 23.00 .50	8.69 .12 T	96.14 1.33	198 30 1	664.50 4.56 .18	3.36 .15 .18	.38 .20 .36	318.96 2.19 .09
ANNUAL FORBS LATE GIPU	40.70 4.20 4.80	.02	.22	143 18 36	116.12	.81	2.85	55.74
PLSP LEDE CHAL LUPU	13.60 4.20 11.60 1.70	.02 .07 .02 .06	.77 .22 .66	79 42 63 4				
DEPI GIL PERENNIAL	.50 .10	T T		1				
FORBS *OPPO VIAM TRA	5.70 508.60 5.20 .50	2.54 .03 T	.33	15 82 14 1	13.70	.91	2.40	6.58
TOTAL		9.04	100.00		799.06		of the control of the	383.56
*Not comput	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #4 - Dutch Nick Flat Exc.

October 15 to April 15 = 1.40
April 15 to July 1 = 4.16
July 1 to September 1 = .91
September 1 to October 15 = 2.52
Season Total = 8.99
Long Term Average = 7.09

ESTIMATE STORE CONTROL STORE STORE STORE STORE AND STORE STO

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Farson Inside Native 8/15/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*ARTR *CHVI AGSM STCO POSE SIHY CAR ANNUAL FORBS CHAL PERENNIAL FORBS EROV SILI *PHHO	166.00 29.60 17.10 10.50 .50 4.50 .60	8.30 1.48 .86 .53 .03 .23 .03 .04	47.77 29.44 1.67 12.78 1.67 2.22	13 8 16 6 1 4 2	18.83 14.59 .37 6.02 .73	1.18 2.43 .37 1.51 .37	1.10 1.39 .74 1.34 1.22 1.66	90.38 70.03 1.78 28.90 3.50
TOTAL *Not compu	ted in perce	1.80	100.00		46.47			223.06

Precipitation Data:

R. G. #2 - Farson

October 15 to April 15 = 2.07 April 15 to July 1 = 3.33 July 1 to September 1 = .94 September 1 to October 15 = 1.35 Season Total = 7.69 Long Term Average = 6.14

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Farson Outside Native 8/15/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
0/13/0/	· ·	-		-a - a				
+	A	В	С	E	F	G	H	I
*ARTR *CHVI AGSM STCO ORHY SIHY	120.00 42.50 22.50 .50 1.00	6.00 2.13 1.13 .03 .05	83.71 2.22 3.70 2.22	11 10 16 1 2 1	17.45 .54 .28 .05	1.09 .54 .14 .05	.78 1.08 .28 .10	83.76 2.59 1.34 .24
ANNUAL FORBS LATE CHAL OESC	1.90 .10 1.60 .20	.01 .08 .01	.74 5.93 .74	9 1 8 2	1.84	.20	.97	8.83
PERENNIAL FORBS SILI *OPPO *ARHO *PHHO	.10 .10 1.00 1.50 18.50	.01 .05 .08 .93	.74	1 1 1 1 8	.43	.43	4.30	2.06
TOTAL *Not compu	ted in perc	1.35	100.00		20.59			98.82

Precipitation Data:

R. G. #2 - Farson

October 15 to April 15 = 2.07 April 15 to July 1 = 3.33 July 1 to September 1 = .94 September 1 to October 15 = 1.35 Season Total = 7.69 Long Term Average = 6.14

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Plots Sits 1 w 1

				Parson Outstan Nature Talestan

Street of the latest and the latest

April 15 to Antil 13 - 2.37

April 15 to Antil 14 - 2.37

April 15 to Antil 15 - 2.37

Plots Size 1 x 1

No. Plots 20

Cover Dete	rmined by	Area	Estimate
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Granite Mt. Inside Native 8/21/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI AGSM STCO SIHY POSE ANNUAL FORBS UNK PERENNIAL FORBS ASMI ERCO ARDR TRI CREL *PHHO	279.00 12.00 15.70 5.00 1.00 58.50 .50 .50 .20 2.80 .20 2.30 .10 .10 .10	13.95 .60 .79 .25 .05 2.93 .03	18.76 5.94 1.19 69.597124 2.85 .24 .24 .24	12 3 18 2 2 19 1 1 1 1 1 1 1 9	20.64 3.06 .60 32.23 1.31	1.15 1.53 .30 1.70	1.31 .61 .60 .55	99.07 14.69 2.88 154.70 6.29
TOTAL *Not comput	ed in perc	4.21 ent compos	100.00		60.53			290.54
	Procini	tation Dat						

R. G. #6 - Granite Mt.	
October 15 to April 15	= 1.78
April 15 to July 1	= 6.46
July 1 to September 1	= 1.52
September 1 to October 15	= 1.46
Season Total	=11.22
Long Term Average	= 8.86

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37.45

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Granite Mt. Outside Native 8/21/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI AGSM POSE SIHY CAFI	156.00 4.00 13.50 83.50 .10 4.00	7.80 .20 .68 4.18 .01 .20	 12.21 75.03 .18 3.59	14 1 19 19 1	24.12 22.59 .29 .25	1.27 1.19 .29 .25	1.79 .27 2.90 .06	115.78 108.43 1.39 1.20
ANNUAL FORBS CAMI	.50	.03	 . 54	1 1	.11	.11	.22	. 53
PERENNIAL FORBS HAAC ERCO ASMI	9.10 6.00 1.00 .50	.30 .05 .03	5.39 .90 .54	12 1 10 1	2.29	.19	. 25	10.99
ARDR AST LES *PHHO	.90 .50 .20 10.30	.05 .03 .01 .52	.90 .54 .18	1 2 8				
TOTAL	-4	5.57	100.00		49.65			238.32
*Not comput	ed in perc	ent compos	ition					

R. G. #6 - Granite Mt.	
October 15 to April 15	= 1.78
April 15 to July 1	= 6.46
July 1 to September 1	= 1.52
September 1 to October 15	= 1.46
Season Total	=11.22
Long Term Average	= 8.86

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Granite Mt. Inside Sprayed 8/21/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM POSE ORHY ANNUAL FORBS CAS PERENNIAL FORBS ASMI CRE *PHHO	91.50 35.10 45.00 1.00 .10 .10 .10 .60 .50 3.10	4.58 1.76 2.25 .05 .01	 42.62 54.47 1.21 .24	6 20 17 1 1 1 3 2 1 4	88.72 31.67 1.40	4.44 1.86 1.40	2.53 .70 1.40	425.86 152.02 6.72 .48
TOTAL		4.13	100.00	- 4 1	122.75			589.21
*Not compute	d in perce	ent compos	ition					

Precipitation Data:

riccipication i	a.c.a.	
R. G. #6 - Granite Mt.	= 1.	78
October 15 to April 15	= 6.	46
April 15 to July 1	= 1.	52
July 1 to September 1	= 1.	46
September 1 to October 15	=11.	22
Season Total	= 8.	86

Long Term Average

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Granite Mt. Outside Sprayed 8/21/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI SIHY POSE AGSM KOCR PERENNIAL FORBS ERCO ASMI AST *PHHO	10.00 5.00 4.00 52.00 45.60 1.00 2.20 1.50 .50 .20 1.00	.50 .25 .20 2.60 2.28 .05	3.81 49.53 43.43 .95	1 3 20 20 1 4 2 1 2	5.73 25.10 75.47 .38	1.91 1.26 3.77 .38	1.43 .48 1.66 .38	27.50 120.48 362.26 1.82
TOTAL		5.25	100.00	-	108.27			519.69
*Not comput	d in perc	ent compos	ition					

Precipitation Data:

R. G. #6 - Granite Mt.

October 15 to April 15 = 1.78

April 15 to July 1 = 6.46

July 1 to September 1 = 1.52

September 1 to October 15 = 1.46

Season Total = 11.22

Long Term Average = 8.86

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Plots Size 1 x 10

No. Plots 200

Cover Determined by Area Estimate

				•				
Halogeton Pastures Exc. #1 Inside Native	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ATNU ARPE SIHY POSE	1865.90 158.00 69.80 36.20	9.33 .79 .35 .18	86.63 7.34 3.25 1.67	158 26 38 19	729.52 19.28 60.27 7.34	4.62 .74 1.59 .39	.39 .12 .86 .20	350.17 9.25 28.93 3.52
ANNUAL FORBS HAGL OESC LATE LEDE GIPU DEPI	22.80 7.50 8.30 3.90 .80 1.10	 .04 .04 .02 T .01 T	.37 .37 .19 	99 33 42 27 8 11 2	32.91	. 33	1.44	15.80
UNK OEN PERENNIAL FORBS ALTE SPCO *OPPO	1.40 1.30 .10	.01 T	.09	1 14 13 1 1	. 64	.05	° 46	.31
TOTAL *Not compu T - Trace	ted in perc	10.77 ent compos			849.96			359.98

R. G. #24 - Halogeton Pastures	#1	
October 15 to April 15	=	. 78
April 15 to July 1	=	3.40
July 1 to September 1	=	. 28
September 1 to October 15	=	1.10
Season Total	=	5.56
Long Term Average	=	5.18

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Plots Size 1 x 10

No. Plots 200

Cover	Determined	by	Area	Estimate
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Total Trans. Basal Area	Average				Average	,	
Percent	Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Weight Per Plot Occur- rences	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
A	В	С	E	F	G	Н	I
3.00 2656.10 109.00 163.30 18.20 1.80 11.40 .20 1.70 .60 .10 .50 .30 1.60	.02 13.28 .55 .82 .01 .06 T .01 T T T T T .01	.14 89.90 3.72 5.55 07 .410707	1 170 27 42 109 18 82 2 17 6 1 5 3 16	.30 1036.18 40.16 185.59 21.96	.30 6.10 1.49 4.42	.10 .39 .37 1.14	.14 497.37 19.28 89.08
ed in perc	14.77	100.00 ition		1286.31			617.43
	3.00 2656.10 109.00 163.30 18.20 1.80 11.40 .20 1.70 .60 .10 .50 .30 1.60	3.00 .02 2656.10 13.28 109.00 .55 163.30 .82 18.20 1.80 .01 11.40 .06 .20 T 1.70 .01 .60 T .10 T .50 T .30 T 1.60 .01 1.80 1.80 .01 7.10 .04	3.00	3.00	3.00	3.00	3.00

Precipitation Data:

R. G. #24 - Halogeton Pastures #2

October 15 to April 15 = .78

April 15 to July 1 = 3.40

July 1 to September 1 = .28

September 1 to October 15 = 1.10

Season Total = 5.56

Long Term Average = 5.18

HERITAGE AND PROCESSIVE TATAL THOM MYOMING HALDGEROU EXCLOSURE STUDIES (PLOTS LOCATED SYSTEMATICALLY AND VALCETS ON OTHER DRY BASIS)

No. Picts 200

Plots Tisk I x 10

Cover Noternance by Area Sattmate

				Halogeton Pastures Nac. 62 Inside Native

Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

Halogeton Pastures Exc. #3 Inside Native 7/13/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ATNU SIHY	2263.30 22.10	11.32 .11	98.34	144 9	959.52 50.20	6.66 5.58	.42 2.27	460.57 24.10
ANNUAL FORBS LEDE OESC LATE HAGL GIPU DEPI UNK MATA	15.50 1.20 3.90 2.80 5.20 .70 .10 1.20 .40	.01 .02 .01 .03 T T T	.09 .17 .09 .26	98 12 31 28 39 7 1 12 4	22.27	. 23	1.44	10.69
PERENNIAL FORBS ALTE TRA *OPPO	3.00 2.90 .10 9.00	.01 T	.09	25 25 1 2	3.49	.14	1.16	1.68
TOTAL *Not comput T - Trace	ed in perd	11.51	100.00		1035.48			497.04

Precipitation Data:

R. G. #24 - Halogeton Pastures #3

October 15 to April 15 = .78

April 15 to July 1 = 3.40

July 1 to September 1 = .28

September 1 to October 15 = 1.10

Season Total = 5.56

Long Term Average = 5.18

Plots Size 1 x 1

No. Plots 20

Cover	Determined	by	Area	Estimate
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Horse Creek AGSM Inside Native 7/29/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM POSE BRCO BRTE ANNUAL FORBS DEPI CHAL LARE UNK PERENNIAL FORBS *OPPO	86.00 29.00 12.80 .20 .70 3.20 1.30 1.20 .60 .10	4.30 1.45 .64 .01 .04	 62.77 27.71 .43 1.73	5 20 16 2 3 16 13 8 6 1	93.05 3.34 .41 1.38	4.65 .21 .21 .46	3.21 .26 2.05 1.97	446.64 16.03 1.97 6.62
TOTAL		2.31	100.00		101.70			488.16
*Not compute	d in perc	ent compos	ition					
1910								

R. G. #12 - Horse Creek	
October 15 to April 15	= 5.00
April 15 to July 1	= 6.70
July 1 to September 1	= .47
September 1 to October 15	= 1.85
Season Total	=14.02
Long Term Average	=11.20

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Horse Creek AGSM Outside Native 7/29/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F : E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM AGSP POSE BRCO ANNUAL FORBS CHAL LEDE DEPI SAKA LARE	102.00 14.90 3.00 3.60 .50	5.10 .75 .15 .18 .03	60.98 12.20 14.63 2.44 1.63 .81 2.44 .81 .81	8 20 4 5 1 9 4 1 5 1	30.22 2.70 1.86 .96	1.51 .68 .37 .96	2.03 .90 .52 1.92	145.06 12.96 8.93 4.61
PERENNIAL FORBS ALTE UNK *OPPO *PHHO	.70 .10 .60 30.00 18.00	.01 .03 1.50	.81 2.44	3 1 2 3 7	1.66	。55	2.37	7.97
TOTAL *Not comput	d in perd	1.23	100.00 ition		39.28			188.55

R. G. #12 - Horse Creek	
October 15 to April 15	= 5.00
April 15 to July 1	= 6.70
July 1 to September 1	= .47
September 1 to October 15	= 1.85
Season Total	=14.02
Long Term Average	=11.20

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Horse Creek AGSP Inside Native 7/29/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.		Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSP POSE AGSM ANNUAL FORBS DEPI LEDE CHAL PERENNIAL FORBS *PHHO *OPPO	104.00 139.80 6.00 2.00 .70 .50 .10 .10	5.20 6.99 .30 .10 .03 .01 .01	93.96 4.04 1.34 40 .13 .13	8 20 6 4 6 5 1 1	98.76 1.15 4.88	4.94 .19 1.22	.71 .19 2.44	474.05 5.52 23.42 9.70
TOTAL		7.44	100.00		106.81			512.69
*Not compute	d in perc	ent compos	ition		-			

Precipitation Data:

R. G. #12 - Horse Creek

October 15 to April 15 = 5.00
April 15 to July 1 = 6.70
July 1 to September 1 = .47
September 1 to October 15 = 1.85
Season Total = 14.02
Long Term Average = 11.20

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

						p	,	-
Horse Creek AGSP Outside Native 7/29/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	Е	F	G	Н	I
*ARTR *GUSA AGSM POSE AGSP ANNUAL FORBS CHAL DEPI LARE LEDE SAKA	331.00 8.40 6.50 4.60 9.00 .80 .20 .30 .10 .10	16.55 .42 .33 .23 .45	 28.45 19.83 38.80 .86 1.72 .86 .86	10 6 14 7 8 4 2 3 1 1	12.42 .68 6.48	.89 .10 .81	1.91 .15 .72	59.62 3.26 31.10
PERENNIAL FORBS SPCO CRBR HAAC *PHHO *OPPO	1.60 .50 .10 1.00 4.00 3.00	.03 .01 .05 .20	2.59 .86 4.31	5 5 1 1 3 1	11.10	2.22	6.94	53.28
TOTAL *Not comput	d in perc	1.16 ent compos	100.00 ition		34.60			166.08

R. G. #12 - Horse Creek	
October 15 to April 15	= 5.00
April 15 to July 1	= 6.70
July 1 to September 1	= .47
September 1 to October 15	= 1.85
Season Total	=14.02
Long Term Average	=11,20

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Kane Deer Inside Native 8/14/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*JUSC AGGR POSE PERENNIAL FORBS GISP HYAC *OPPO *PHHO	403.00 3.00 2.50 2.60 2.10 .50 2.00 1.30	20.15 .15 .13 .11 .03 .10 .07	 35.72 30.95 26.19 7.14 	10 2 3 5 4 1 1 4	2.26 .41	1.13 .14	.75 .16	10.85 1.97 2.54
TOTAL *Not compu	ted in perc	.42 ent compos	100.00		3 . 20			15.36
		tation Dat						

Precipitation Data:

R. G. #24 - Kane Deer Exc.

October 15 to April 15 = 5.27 April 15 to July 1 = 5.73 July 1 to September 1 = .60 September 1 to October 15 = 2.82 Season Total = 14.42 Long Term Average = 11.10

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Kane Deer Outside Native 8/14/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*JUSC GUSA POSE AGGR STCO ANNUAL FORBS DEPI	331.00 .50 1.60 2.60 1.00	16.55 .03 .08 .13 .05	 3.57 9.52 15.48 5.95	8 1 3 4 1	.24 .51 3.58 .56	. 24 . 17 . 90 . 56	.48 .32 1.38 .56	1.15 2.45 17.18 2.69
PERENNIAL FORBS PHAU ERCO PASE GISP PEAL *ARHO	10.60 3.20 .70 .50 2.60 3.60 1.00	.16 .04 .03 .13 .18	19.05 4.76 3.57 15.48 21.43	13 6 7 1 5 8 1	6.80	。52	。64	32.64
TOTAL *Not compu	ted in perc	.84	100.00		11.74			56.35

Precipitation Data:

R. G. #24 - Kane Deer Exc.

October 15 to April 15 = 5.27 April 15 to July 1 = 5.73 July 1 to September 1 = .60 September 1 to October 15 = 2.82 Season Total = 14.42 Long Term Average = 11.10 Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Kane Deer Inside Sprayed 8/14/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average. Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARNO POSE AGGR AGSP ANNUAL FORBS DEPI CHAL CAMI CHTE UNK PERENNIAL FORBS PEAL ERCO GISP PHAU *ARHO	52.00 1.60 1.60 2.50 3.00 1.60 .10 1.00 .20 6.10 1.00 .20 2.50 2.40 .10	2.60 .08 .08 .13 .08 .01 .05 .01 .01	10.53 10.53 17.10 10.53 1.32 6.58 1.32 1.32 1.32 1.32	2 3 3 2 7 4 1 1 1 2 9 1 2 5 5 1	.39 .28 2.42 6.44	.13 .09 1.21	.24 .18 .97	1.87 1.34 11.62 30.91
TOTAL		.76	100.00		13.35			64.08
*Not compu	ted in perce	ent compos:	tion					

Precipitation Data:

R. G. #24 - Kane Deer Exc.

October 15 to April 15 = 5.27

April 15 to July 1 = 5.73

July 1 to September 1 = .60

September 1 to October 15 = 2.82

Season Total = 14.42

Long Term Average = 11.10

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Kane Deer Outside Sprayed 8/14/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
POSE	6.00 8.50	.30	24.78 35.53	4 5	2.94 15.84	.74 3.17	.49 1.86	14.11 76.03
ANNUAL FORBS DEPI LATE CAMI	3.00 1.80 .60 .50	.09 .03 .03	7.44 2.48 2.48 2.48	10 6 2 5 1	4.88	.49	1.63	23.42
PERENNIAL FORBS PASE ERCO PEAL GISP PHAU TAOF *ARHO	6.00 1.00 .10 1.10 3.00 .70 .10 .20	.05 .01 .06 .15 .04 .01	4.13 .83 4.96 12.40 3.31 .83	9 1 1 2 5 3 1 2	6.38	.71	1.06	30.62
TOTAL		1.21	100.00		30.04			144.18
*Not compu	ed in perc	ent compos:	ition		3			27/8-10
	Desaded							

Precipitation Data:

R. G. #24 - Kane Deer Exc.

October 15 to April 15 = 5.27 April 15 to July 1 = 5.73 July 1 to September 1 = .60 September 1 to October 15 = 2.82 Season Total = 14.42 Long Term Average = 11.10

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

44.47								
Kirby Creek Inside Native 7/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.		Wgt/ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*SAVE AGSM POSE BRTE HOPU ANNUAL FORBS LEPE EUSE ATAR GIPU LARE CHAL SAKA CAMI KOSC PERENNIAL FORBS *OPPO	122.50 3.90 35.60 18.00 1.00 1.00 1.40 .20 .30 .50 1.10 .10 1.00	6.13 .20 1.78 .90 .05 .05 .07 .01 .02 .03 .06 .01 .05	4.87 43.31 21.90 1.22 21.41 1.22 1.70 .24 .48 .73 1.46 .24 1.22	6 9 12 16 1 20 20 6 10 2 3 1 7	40.78 18.50 75.58 2.44 230.47	4.53 1.54 4.72 2.44	10.46 .52 4.20 2.44	195.74 88.80 362.78 11.71
TOTAL		4.11	100.00		367.77			1765.29
*Not compute	d in perce	ent composi	tion					

Precipitation Data:

R. G. #77 - Kirby Creek Exc.

October 15 to April 15 = 2.51
April 15 to July 1 = 8.10
July 1 to Sep tember 1 = .85
September 1 to October 15 = 1.45
Season Total = 12.91
Long Term Average = 9.22

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Kirby Creek Outside Native 7/17/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.		Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*SAVE SPAI BRTE POSE AGSM HOPU ANNUAL FORBS LEPE ATAR SAKA EUSE LARE UNK	32.20 4.00 4.90 1.10 18.10 .10 10.40 6.60 2.70 .30 .40 .30	1.61 .20 .25 .06 .91 .01	10.10 12.63 3.03 45.95 .51 16.66 7.07 1.01 1.01 1.01	20 20 20 11 3 4 3	7.59 25.36 1.51 145.12 .62	7.59 1.81 .76 11.16 .62	1.90 5.18 1.37 8.02 6.20	36.43 121.73 7.25 696.58 2.98
PERENNIAL FORBS *OPPO SPCO	. 20 5. 50 . 20	.28	.51	2 2 2	。90	. 45	4.50	4.32
TOTAL *Not compute	d in perc	1.98	100.00 tion		319.80			1535.05

Precipitation Data:

R. G. #77 - Kirby Creek Exc.

October 15 to April 15 = 2.51
April 15 to July 1 = 8.10
July 1 to September 1 = .85
September 1 to October 15 = 1.45
Season Total = 12.91
Long Term Average = 9.22

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Lower Govt. Draw Inside Native 8/23/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM POSE STCO KOCR ANNUAL FORBS DEPI LEDE GILE CHAL POAV	358.00 14.90 9.70 8.00 2.00 2.00 .30 .50 .70 .30 .20	17.90 .75 .49 .40 .10	 40.31 26.34 21.51 5.38 1.08 1.61 2.15 1.08 .54	12 20 12 6 1 11 3 5 7 3 2	23.03 6.72 10.54 1.94	1.15 .56 1.76 1.94	1.55 .69 1.32 .97	110.54 32.26 50.59 9.31
TOTAL		1.86	100.00		44.98			215.90
*Not compute	d in perce	ent compos	ition					

Precipitation Data:

R. G. #16 - Lower Govt. Draw

October 15 to April 15 = 2.25
April 15 to July 1 = 8.35
July 1 to September 1 = 1.30
September 1 to October 15 = 1.76
Season Total = 13.66
Long Term Average = 10.56

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Lower Govt. Draw Outside Native 8/24/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI AGSM POSE BRTE STCO FEOC	275.00 1.00 7.10 14.00 15.40 9.60 .70	13.75 .05 .36 .70 .77 .48 .04	13.90 27.03 29.72 18.53 1.54	14 1 17 10 17 8 3	15.84 7.09 40.82 11.92 .17	.93 .71 2.40 1.49 .06	2.23 .51 2.65 1.24 .24	76.03 34.03 195.94 57.22
ANNUAL FORBS LEDE DEPI CHAL GILE PLPA PLSP	2.70 .90 .10 .20 1.10 .30	.05 .01 .01 .06 .02	1.93 .39 .39 2.32 .77 .39	16 9 1 2 11 3 1	3.46	. 22	1.28	16.61
PERENNIAL FORBS ERPU SPCO CRE *OPPO	1.50 .60 .80 .10	.03 .04 .01	1.16 1.54 .39	7 2 4 1	3.67	。52	2.45	17.62
TOTAL *Not comput		2.59			82.97			398.27

Precipitation data:

R. G. #16 - Lower Govt. Draw

October 15 to April 15 = 2.25

April 15 to July 1 = 8.35

July 1 to September 1 = 1.30

September 1 to October 15 = 1.76

Season Total = 13.66

Long Term Average = 10.56

.

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Lower Govt. Draw Inside Sprayed 8/23/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
STCO AGSM POSE BRTE KOCR	27.00 18.80 12.10 10.70 2.00	1.35 .94 .61 .54	36.90 25.68 16.67 14.75 2.73	13 19 11 14 2	95.52 82.15 7.16 33.21 2.16	7.35 4.32 .65 2.37 1.08	3.54 4.37 .59 3.10 1.08	458.50 394.32 34.37 159.41 10.37
ANNUAL FORBS LEDE DEPI CHAL GILE MEN	1.80 .90 .20 .10 .50	.05 .01 .01 .03	1.37 .27 .27 .82 .27	15 9 2 1 5	11.63	. 78	6.46	55.82
PERENNIAL FORBS TRA	.10	.01	. 27	1 1	.12	.12	1.20	. 58
TOTAL *Not compute	d in perc	3.66	100.00		231.95			1113.37

Precipitation Data:

R. G. #16 - Lower Govt. Draw

October 15 to April 15 = 2.25

April 15 to July 1 = 8.35

July 1 to September 1 = 1.30

September 1 to October 15 = 1.76

Season Total = 13.66

Long Term Average = 10.56

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Lower Govt. Draw Outside Sprayed 8/24/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
AGSM POSE BRTE STCO KOCR	12.80 37.50 12.60 5.00 .50	.64 1.88 .63 .25	18.34 53.86 18.05 7.16 .86	17 20 11 2 1	24.85 17.81 16.81 2.73 .16	1.46 .89 1.53 1.37 .16	1.94 .47 1.33 .55	119.28 85.49 80.69 13.10
ANNUAL FORBS GILE LEDE POAV CHAL	.70 .10 .30 .10	.01 .02 .01	. 29 . 57 . 29	7 1 3 1 2	1.37	。20	1.96	6.58
PERENNIAL FORBS SPCO	.10	.01	.29	1 1	. 26	. 26	2.60	1.25
TOTAL *Not comput	ed in perc	3.49 ent compos	100.00		63.99			307.16
	Description	tation Dat						

Precipitation Data:

R. G. #16 - Lower Govt. Draw

October 15 to April 15 = 2.25

April 15 to July 1 = 8.35

July 1 to September 1 = 1.30

September 1 to October 15 = 1.76

Season Total = 13.66

Long Term Average = 10.56

.

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

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McGraw Flat Inside Native 8/23/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	Ι
*ARTR *CHVI AGSM POSE PERENNIAL FORBS SPCO VIAM ORO *PHHO	215.10 7.10 15.80 55.10 2.60 .50 2.00 .10 28.00	10.76 .36 .79 2.76	 21.41 74.80 .81 2.71 .27	14 4 20 14 10 5 8 1 12	23.06 25.81 4.98	1.15 1.84	1.46 .47	110.69 123.89 23.90
TOTAL *Not compu	ted in perc	3.69	100.00		53.85			258.48

Precipitation Data:

R. G. #14 - McGraw Flat Exc.

October 15 to April 15 = 2.06 April 15 to July 1 = 7.17 July 1 to September 1 = 1.18 September 1 to October 15 = 2.01 Season Total = 12.42 Long Term Average = 9.44 CATALOG CON TRACTOR OF STREET, STATE AND STREET, STATE AND STREET, STATE AND STREET, STATE AND S

David Co.

Total Day of Sand

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

McGraw Flat Outside Native 8/23/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.		Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	Ι
*ARTR *CHVI *GUSA AGSM POSE	155.00 16.10 3.00 13.20 39.60	7.75 .81 .15 .66 1.98	23.08 69.23	16 4 1 20 20	15.38 17.37	. 77 . 87	1.17 .44	73.82 83.38
ANNUAL FORBS GIL UNK	.20 .10 .10	 .01 .01	.35	2 1 1	. 64	.32	3.20	3.07
PERENNIAL FORBS SPCO VIAM ARA *PHHO *LEPU	3.80 .60 3.10 .10 11.50 2.00	.03 .16 .01 .58	1.05 5.59 .35	13 2 11 1 8 2	4.16	. 32	1.09	19.97
TOTAL *Not compu	ted in perc	2.86	100.00		37.55			180 . 24

Precipitation Data:

R. G. #14 - McGraw Flat Exc.

October 15 to April 15 = 2.06 April 15 to July 1 = 7.17 July 1 to September 1 = 1.18 September 1 to October 15 = 2.01 Season Total = 12.42 Long Term Average = 9.44 A

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

North Butte Relic 7/28/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F ÷ E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	Е	F	G	Н	I
*ARTR AGSP POSE STCO CAFI ANNUAL FORBS DEPI LARE PERENNIAL FORBS LEAL SPCO ALTE ERPU AST *OPPO *PHHO	52.00 56.00 7.10 2.00 9.10 1.90 1.80 .10 .40 .40 .40 .30 .10 .10 .10	2.60 2.80 .36 .10 .46 .46	71.80 9.23 2.56 11.79 2.31 .26 .26 .51 .51 .51 .26	2 20 10 1 5 18 18 1 1 1 4 4 4 3 1 1	95.38 2.19 .75 9.05 4.44	4.77 .22 .75 1.81	1.70 .31 .38 .99	457.82 10.51 3.60 43.44 21.31
TOTAL *Not compu	ted in perc	3.90	100.00 tion		114.13			547.82

Precipitation Data:

R. G. #79 - Thermopolis 2 Weather Bureau Station

October 15 to April 15 = 4.22
April 15 to July 1 = 9.52
July 1 to September 1 = .59
September 1 to October 15 = 1.91
Season Total = 16.24
Long Term Average = 11.01

*

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Round Top Relic 7/28/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *GUSA AGSP POSE STCO SIHY CAFI ANNUAL FORBS DEPI LARE EUSE PERENNIAL FORBS ALTE GACO CRBR ZYG CRE	48.00 .10 74.70 5.30 5.10 1.00 38.20 2.70 1.60 1.00 .10	2.40 .01 3.74 .27 .26 .05 1.91 .08 .05 .01	 57.55 4.15 4.00 .77 29.39 1.23 .77 .15	3 1 17 10 4 1 15 17 16 10 1	121.23 6.62 4.38 .36 15.51 7.46	7.13 .66 1.10 .36 1.03	1.62 1.25 .86 .36 .41 2.76	581.90 31.78 21.02 1.73 74.45 35.81
TOTAL	**************************************	6.50	100.00		159.28	gene fredericke in de former in ennigeleer it geen in de voorde belook verwee		764.55
*Not compu	ted in perc	ent compos	ition					

Precipitation Data:

R. G. #79 - Thermopolis 2 Weather Bureau Station

October 15 to April 15 = 4.22
April 15 to July 1 = 9.52
July 1 to September 1 = .59
September 1 to October 15 = 1.91
Season Total = 16.24
Long Term Average = 11.01

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Plots Size 1 x 10

No. Plots 200

Cover Determined by Area Estimate

Sand Gulch Inside Native 7/15/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ATNU AGSM BRTE MUSQ POSE BRCO SIHY BOGR	1355.90 79.10 219.80 2.00 35.30 .60 26.30 32.00	6.78 .40 1.10 .01 .18 T .13 .16	76.95 4.54 12.49 .11 2.04 1.48 1.82	113 113 193 11 30 2 12 3	608.66 280.73 921.62 .18 14.19 1.66 41.21 8.84	5.39 2.48 4.78 .02 .47 .83 3.43 2.95	.45 3.55 4.19 .09 .40 2.77 1.57	292.16 134.75 442.38 .09 6.81 .80 19.78 4.24
ANNUAL FORBS ATAR LEDE SAKA GIPU LARE DEPI CHAL PLSP	9.50 4.20 3.30 .20 .10 1.00 .40 .10 .20	.02 .02 .02 T T .01 T	.23 .23 .11	67 34 29 2 1 10 4 1	32.02	. 48	3.37	15.37
PERENNIAL FORBS *OPPO	227.20	1.14		16				
TOTAL		8.81	100.00		1909.11			916.38
*Not compu T - Trace	ted in perd	tation Dat						

Precipitation Data:

R. G. #75 - Sand Gulch Exc.

October 15 to April 15 = 1.95 April 15 to July 1 = 7.00 July 1 to September 1 = .52 September 1 to October 15 = 1.59 Season Total = 11.06 Long Term Average = 9.27 CHARLES AND SERVICE STREET, ST

THE RESIDENCE OF THE PERSON OF

Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

							,	
Sand Gulch Outside Native 7/12/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F ÷ E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ATNU AGSM POSE BRTE MUSQ BOGR BRCO SIHY ANNUAL FORBS ATAR CHAL SAKA	1488.90 59.50 22.00 89.70 23.40 312.10 .50 7.60 32.50 24.70 2.30 1.10	7.44 .30 .11 .45 .12 1.56 T .04	72.80 2.94 1.08 4.40 1.17 15.26 39	100 66 27 126 56 55 1 7	885.34 169.40 7.55 493.48 17.31 80.05 2.96 38.91	8.85 2.57 .28 3.92 .31 1.46 2.96 5.56	.59 2.85 .34 5.50 .74 .26 5.92 5.12	424.96 81.31 3.62 236.87 8.31 38.42 1.42 18.68
LARE LEDE GIPU MATA EUSE	3.00 .40 .50 .10 .40	.02 T T T	.20	30 4 5 1 4				
PERENNIAL FORBS VIVA *OPPO AST	7.80 .10 410.10 7.70	T 2.05 .04	 .39	17 1 35 16	6.21	.37	. 80	2.98
TOTAL *Not compu T - Trace	ted in perc				2011.15			965.34
	Pracini	tation Dat	9 •					

Precipitation Data:

= 9.27

R. G. 1175 Band Guich Exc.	
October 15 to April 15	= 1.95
April 15 to July 1	= 7.00
July 1 to September 1	= .52
September 1 to October 15	= 1.59
Season Total	=11.06

Long Term Average

THE RESIDENCE AND ADDRESS OF THE PARTY OF THE PROPERTY OF THE PARTY OF

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The Real Property and the last of the last

Plots Size 1 x 1

No. Plots 20

Cover	Determined	by	Area	Estimate
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Smilo Inside Native 7/24/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR BRTE AGSM SIHY POSE FEOC STCO ANNUAL FORBS SAKA PLSP DEPI UNK PERENNIAL FORBS	266.00 .20 3.20 .10 8.90 .80 3.00 5.20 .30 4.50 .30 .10	13.30 .01 .16 .01 .45 .04 .15	90 14.41 .90 40.55 3.60 13.51 1.80 20.73 1.80 .90	9 2 15 1 11 8 1 1 15 3 14 3 1	.42 8.37 .19 4.08 .47 3.51	.21 .56 .19 .37 .06 3.51	2.10 2.62 1.90 .46 .59 1.17	2.02 40.18 .91 19.58 2.26 16.85
TOTAL	.20	1.11	.90	2	30.42			146.02
	ed in perc				30.42			140.02

Precipitation Data:

R. G. #36 - Smilo Exc.	
October 15 to April 15	= 2.44
April 15 to July 1	= 6.61
July 1 to September 1	= .90
September 1 to October 15	= 1.83
Season Total	=11.78
Long Term Average	= 8.48

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		40.55		
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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Smilo Outside Native 7/24/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	Е	F	G	Н	I
*ARTR BOGR SIHY POSE AGSM FEOC STCO ANNUAL FORBS PLSP LEDE LARE	286.00 5.50 4.70 17.80 1.70 .50 .60 3.60 2.50 .40 .10	14.30 .28 .24 .89 .09 .03 .03	 15.91 13.64 50.56 5.11 1.70 1.70	13 3 11 15 4 5 2	1.40 4.73 7.06 2.05 .30 .58	.47 .43 .47 .51 .06 .29	.25 1.01 .40 1.21 .60 .97	6.72 22.70 33.89 9.84 1.44 2.78
SAKA DEPI CHAL UNK PERENNIAL FORBS *OPPO	.10 .20 .20 .10	.01 .01 .01 .01	.57 .57 .57 .57	1 1 2 2 2				
TOTAL		1.76	100.00		28.13			135.02
	ted in perc		ition		20.13			133.02

Precipitation Data:

R. G. #36 - Smilo Exc.

October 15 to April 15 = 2.44

April 15 to July 1 = 6.61

July 1 to September 1 = .90

September 1 to October 15 = 1.83

Season Total = 11.78

Long Term Average = 8.48

CHICAGO DE CONTROLES DEL CONTROLES DEL CONTROLES DE CONTR

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Smilo Inside Sprayed 7/24/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	C	E	F	G	Н	I
*ARTR POSE FEOC BRTE AGSM SIHY AGSP ANNUAL FORBS DEPI PLSP SAKA CHAL LEDE PERENNIAL FORBS *OPPO	1.00 8.10 5.20 10.90 6.60 1.50 1.00 3.20 .30 2.30 .40 .10	.05 .41 .26 .55 .33 .08 .05	22.04 13.98 29.56 17.74 4.30 2.69 1.08 6.45 1.08 .54 .54	1 7 15 19 15 2 1 17 3 15 4 1	2.65 6.52 68.85 15.42 2.42 1.06	.38 .43 3.62 1.03 1.21 1.06	.33 1.25 6.32 2.34 1.61 1.06	12.72 31.30 330.48 74.02 11.62 5.09
TOTAL		1.86	100.00		103,27			495.71
*Not computed in percent composition								
							_ 2 0 1 -	

Precipitation Data:

R. G. #36 - Smilo Exc.

October 15 to April 15 = 2.44

April 15 to July 1 = 6.61

July 1 to September 1 = .90

September 1 to October 15 = 1.83

Season Total = 11.78

Long Term Average = 8.48

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Smilo Outside Sprayed 7/27/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR BRTE POSE AGSM BOGR FEOC SIHY ANNUAL FORBS SAKA PLSP DEPI LARE CHAL LYG UNK PERENNIAL FORBS *OPPO	30.00 18.80 21.70 2.70 .50 .70 1.50 4.20 .60 3.10 .10 .10 .10 .10	1.50 .94 1.09 .14 .03 .04 .08 .03 .16 .01 .01 .01 .01	36.72 42.58 5.47 1.17 1.56 3.13 1.17 6.25 .39 .39 .39 .39 .39 .39	1 20 14 10 1 7 2 10 2 8 1 1 1 1	112.18 6.13 12.65 .17 2.16 1.65	5.61 .44 1.27 .17 .31 .83	5.97 .28 4.69 .34 3.09 1.10	538.46 29.42 60.72 .82 10.37 7.92
TOTAL		2.56	100.00		158.48			760.70
*Not compu	ted in perc	ent composi						

Precipitation Data:

R. G. #36 - Smilo Exc.

October 15 to April 15 = 2.44
April 15 to July 1 = 6.61
July 1 to September 1 = .90
September 1 to October 15 = 1.83
Season Total = 11.78
Long Term Average = 8.48

*

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

Sweetwater Inside Native 7/31/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR *CHVI *ARNO *GUSA STCO KOCR POSE CAFI AGSM	115.00 2.00 16.00 121.00 45.10 20.20 12.70 17.50 1.00	5.75 .10 .80 6.05 2.26 1.01 .64 .88	 35.19 15.72 9.97 13.71	5 1 2 5 16 13 13 12 6	27.08 11.91 3.97 8.17 .86	1.69 .92 .31 .68 .14	. 60 . 59 . 31 . 47 . 86	129.98 57.17 19.06 39.22 4.13
ANNUAL FORBS CHAL CAMI CRBR	1.60 .30 .10 1.00	.02 .01 .05	.31 .16 .78	6 3 1 1 2	.76	.13	. 48	3.65
OEN PERENNIAL FORBS ALTE ARA AST VIO ERI *PHHO *LEPU	29.60 .10 .20 14.10 .20 15.00 34.50 19.00	.01 .01 .01 .71 .01 .75 1.73	.1616 .16 .16 .16 .16 .16 .16	10 1 2 5 2 3 9 3	22.27	2.23	. 75	106.90
TOTAL *Not comput		6.42			75.02			360.11

Precipitation Data:

R. G. #11 - Sweetwater Exc.

October 15 to April 15 = 2.26

April 15 to July 1 = --
July 1 to September 1 = .33

September 1 to October 15 = 1.48

Season Total = --
Long Term Average = 6.32

Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Sweetwater Outside Native 7/31/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
*ARTR *CHVI *GUSA AGSM STCO KOCR POSE CAFI ORHY	162.00 5.00 35.00 6.10 17.10 16.50 15.00 28.80 .50	8.10 .25 1.75 .31 .86 .83 .75 1.44	 6.33 17.55 16.94 15.31 29.38 .61	6 1 3 16 15 11 12 18 1	7.10 14.26 7.32 2.55 11.23	.44 .95 .67 .21 .62	1.16 .83 .44 .17 .39 .42	34.08 68.45 35.14 12.24 53.90 1.01
ANNUAL FORBS CHAL PERENNIAL FORBS AST ERI	.40 .40 13.10 2.00 11.10	.02 .10 .56	 .41 2.04 11.43	4 4 1 3	2.11	. 53	.15 1.61	.29
*PHHO TOTAL *Not compute	8.00	.40 4.90 ent compos	100.00 ition	3	44.84			215.24

Precipitation Data:

R. G. #11 - Sweetwater Exc.

CHARLES AND POST IN ADDRESS OF PERSONS AND ADDRESS OF TAXABLE AND ADDRESS OF TAXABLE AND ADDRESS.

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Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

Two-Mile Hill Inside Native 7/14/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.		Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
-	A	В	C	E	F	G	Н	I
ATNU BRTE BRCO POSE AGCR SIHY ORHY BRJA	1584.80 126.90 46.40 84.80 3.00 169.60 18.00 .10	7.92 .63 .23 .42 .02 .85 .09	77.13 6.13 2.24 4.09 .19 8.29 .88	152 129 135 78 1 84 2	696.20 651.87 384.27 26.08 11.22 467.95 38.30 .32	4.58 5.05 2.85 .33 11.22 5.57 19.15 .32	.44 5.14 8.28 .31 3.74 2.76 2.13 3.20	334.18 312.90 184.45 12.52 5.39 224.62 18.38
ANNUAL FORBS HEAN LARE LEDE CHAL OECA CAMI ERI DEPI	19.60 5.20 4.40 3.10 .30 3.60 3.00 .30 .20	03 .02 .02 .02 .02 .02 .02 .T .02	.29 .19 .19 .19 .19	122 44 40 31 3 28 22 3	106.05	.87	5.41	50.90
PERENNIAL FORBS ALTE AST	11			3 2 1	.38	.13	1.27	.18
TOTAL *Not compu	uted in per	10.27			2382.64			1143.67

Precipitation Data:

R. G. #39 - Two-Mile Hill Exc.

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Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

Two-Mile Hill Outside Native 7/14/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
	A	В	C	E	F	G	Н	I
ATNU POSE BRTE ORHY SIHY BRCO ANNUAL FORBS HEAN LARE OECA LEDE CHAL PLSP POAV PERENNIAL FORBS TRDU VIVA *OPPO ALTE UNK	2658.80 51.50 2.70 1.20 2.20 2.20 2.20 25.90 6.60 14.00 3.40 .40 1.10 .10 .30 5.80 .20 4.20 .10 .50 .90	13.29 .26 .01 .01 .01 .01 .03 .07 .02 T .01 T	96.73 1.89 .07 .07 .07 .07 .07 .07 .15	123 28 15 3 18 9 163 58 128 30 4 11 1 3	1053.50 13.50 20.37 2.98 2.99 10.78	8.57 .48 1.36 .99 .17 1.20	.40 .26 7.54 2.48 1.36 4.90	505.68 6.48 9.78 1.43 1.44 5.17
TOTAL *Not comput T - Trace		13.74 ent compos			1338.54			642.50

Precipitation Data:

R. G. #39 - Two-Mile Hill Exc.

October 15 to April 15 = 3.67

April 15 to July 1 = 4.48

July 1 to September 1 = .49

September 1 to October 15 = 1.88

Season Total = 10.52

Long Term Average = 10.38

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Plots Size 1 x 1

No. Plots 20

Cover Determined by Area Estimate

Upper Govt. Draw Inside Native 8/22/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	Е	F	G	Н	I
*ARTR AGSM POSE KOCR ANNUAL	146.50 19.30 15.90 16.60	7.33 .97 .80 .83	31.69 26.14 27.12	11 20 18 11	33.86 8.37 15.97	1.69 .47 1.45	1.75 .53 .96	162.53 40.18 76.66
FORBS LARE DEPI LEDE PLPA GIL	2.10 .10 .20 .30 1.40 .10	.01 .01 .02 .07	.33 .33 .65 2.29 .33	10 1 2 3 6 1	2.00	.20	, 95	9.60
PERENNIAL FORBS ALTE SPCO ERPU ANRO PEN CRE CAS *PHHO	6.30 .10 .10 1.50 2.00 .10 .50 2.00 29.00	01 .01 .08 .10 .01 .03 .10 1.45	33 .33 2.61 3.27 .33 .98 3.27	6 1 1 6 1 1 1 1	4.95	.83	. 79	23.76
*OPPO *LEPU	2.00	.10		1 2				
TOTAL	1	3.06	100.00		65.15			312.73

Precipitation Data:

R. G. #9 - Upper Govt. Draw Exc.

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

	y Tree Transfer and a second second second second							
Upper Govt. Draw Outside Native 8/22/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F : E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM POSE KOCR	148.50 18.50 25.10 6.00	7.43 .93 1.26 .30	33.21 45.01 10.71	12 20 19 5	31.33 9.59 6.46	1.57 .50 1.29	1.69 .38 1.08	150.38 46.03 31.01
ANNUAL FORBS PLSP LEDE LARE DEPI	1.60 1.10 .10 .30	.06 .01 .02 .01	2.14 .36 .71 .36	13 11 1 3 1	3.91	. 30	2.44	18.77
PERENNIAL FORBS ALTE ERPU SPCO CRE	3.90 .10 3.10 .60 .10	.01 .16 .03	 .36 5.71 1.07	13 1 7 6 1	4.48	. 34	1.15	21.50
*PHHO *OPPO *ARHO	16.50 .50 .30	.83 .03 .02		11 1 3			7	
TOTAL		2.80	100.00		55.77			267.69
*Not comput	ed in perc	ent compos	ition			aya.		
	Precipi	tation Dat	2.					

Precipitation Data:

R. G. #9 - Upper Govt. Draw Exc.

Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

	,							
Upper Govt. Draw Inside Sprayed 8/22/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	E	F	G	Н	I
*ARTR AGSM KOCR POSE BRJA STCO ANNUAL FORBS PLSP	11.00 33.00 6.10 19.20 .10 6.00	.55 1.65 .31 .96 .01 .30	 48.69 9.14 28.33 .29 8.86	1 20 6 18 1 4	94.77 7.43 7.32 .67 8.27	4.74 1.24 .41 .67 2.07	2.87 1.22 .38 6.70 1.38	454.90 35.66 35.14 3.22 39.70
DEPI LEDE LARE PLPA CHAL GIL PERENNIAL	.40 .10 .10 .10 .10	.02 .01 .01 .01 .01	.59 .29 .29 .29 .29	4 1 1 1 1 1				
FORBS ERPU *PHHO	1.50 1.50 .70	.08	2.36	2 2 3	1.39	.70	.93	6.67
TOTAL		3.39	100.00		123.65			593.53
*Not comput	ed in perd	ent compos	ition					
	Precipi	tation Dat	2 *					

Precipitation Data:

R. G. #9 - Upper Govt. Draw Exc.

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Plots Size 1 x 1

Cover Determined by Area Estimate

No. Plots 20

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Upper Govt. Draw Outside Sprayed 8/22/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency % Base 20	Total Weight Gms/20/ Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x 4.8
	A	В	С	Е	F	G	Н	I
*ARTR AGSM STCO POSE KOCR ANNUAL FORBS PLSP LARE DEPI LEDE GIL PERENNIAL FORBS ERPU *PHHO	2.00 19.70 4.50 34.50 3.60 1.90 1.10 .10 .20 .30 .20	.10 .99 .23 1.73 .18 .06 .01 .01 .02 .01	 30.00 6.97 52.43 5.45 1.82 .30 .30 .61 .30	1 20 5 20 7 11 7 1 2 3 2	37.41 2.53 13.10 2.15 5.41	1.87 .51 .66 .31	1.90 .56 .38 .60 2.85	179.57 12.14 62.88 10.32 25.97
TOTAL		3.30	100.00		61.84			296.83
*Not compute	ed in perc	ent compos	ition					

Precipitation Data:

R. G. #9 - Upper Govt. Draw Exc.

Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

West Pasture Inside Native 7/6/67	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F E	Wgt./ Unit Basal Area F E	Pounds Per Acre F x .48
	A	В	С	Е	F	G	Н	I
ARPE ATNU BOGR ORHY SIHY POSE	86.10 1424.40 26.00 63.60 58.00 40.30	.43 7.12 .13 .32 .29 .20	4.88 80.83 1.48 3.63 3.29 2.27	43 136 3 77 43 37	15.96 701.05 17.60 129.87 93.79 10.78	.37 5.15 5.87 1.69 2.18 .29	.19 .49 .68 2.04 1.62	7.66 336.50 8.45 62.34 45.02 5.17
ANNUAL FORBS MATA PLPA LEDE EUSE LATE CHAL GIPU	32.70 7.60 8.50 1.20 14.10 1.00 .20	.04 .04 .01 .07 .01 T	.45 .45 .11 .79 .11	170 64 58 12 133 10 2	20.99	.12	. 64	10.08
PERENNIAL FORBS MUDI ALTE VIAM AST *OPPO	31.40 20.50 10.40 .30 .20 111.90	.10 .05 T T	1.14 .57 	122 69 83 3 2 32	42.76	. 35	1.36	20.52
TOTAL *Not compu T - Trace	ed in perc	8.81			1032.80			495.74

Precipitation Data:

R. G. #13 - West Pasture Exc.

Plots Size 1 x 10

Cover Determined by Area Estimate

No. Plots 200

West Pasture Outside Native	Total Trans. Basal Area Percent	Average Percent Basal Area	Percent Compo- sition	Absolute Plot Frequency %Base 200	Total Weight Gms/200 /Sq. ft.	Average Weight Per Plot Occur- rences F = E	Wgt./ Unit Basal Area F = E	Pounds Per Acre F x .48
	A	В	С	E	F	G	Н	I
ARPE ATNU SIHY ORHY POSE SPCR BOGR	142.90 1092.10 41.40 37.50 57.10 3.10 18.10	.71 5.46 .21 .19 .29 .02	9.85 75.73 2.91 2.64 4.02 .28 1.25	47 139 56 56 42 3	25.41 580.62 27.66 29.58 12.48 1.14 6.39	.54 4.18 .49 .53 .30 .38 2.13	.18 .53 .67 .79 .22 .37	12.20 278.70 13.28 14.20 5.99 .55 3.07
ANNUAL FORBS LATE PLPA MATA EUSE LEDE CHAL GIPU	32.60 11.60 3.60 8.40 7.90 .90 .10	 .06 .02 .04 .04 T T	 .83 .28 .55 .55 	147 67 36 68 79 9 1	90.81	_a 62	2.79	43.59
PERENNIAL FORBS MUDI ALTE VIAM AST *OPPO	15.00 11.00 3.80 .10 .10	 .06 .02 T T	.83 .28 	98 74 38 1 1 38	23.64	. 24	1.58	11.35
TOTAL *Not compu T - Trace		7.21			797.73			382.93

Precipitation Data:

R. G. #13 - West Pasture Exc.
October 15 to April 15 =

October 15 to April 15 = 1.11 April 15 to July 1 = 5.98

July 1 to September 1 = .42

September 1 to October 15 = 1.65

Season Total = 9.16 Long Term Average = 6.98 ě



